

**THE U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
PUBLIC HEALTH SERVICE  
CENTERS FOR DISEASE CONTROL AND PREVENTION  
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH**

convenes

MEETING THREE

WORLD TRADE CENTER HEALTH PROGRAM

SCIENTIFIC/TECHNICAL ADVISORY COMMITTEE

WEDNESDAY, MARCH 28, 2012

TELECONFERENCE

The verbatim transcript of the  
Meeting of the Scientific/Technical Advisory  
Committee held telephonically on March 28, 2012.

STEVEN RAY GREEN AND ASSOCIATES  
NATIONALLY CERTIFIED COURT REPORTERS  
404/733-6070

CONTENTS

March 28, 2012

WELCOME AND INTRODUCTION	7
ELIZABETH WARD, PhD, CHAIR	
JOHN HOWARD, MD, PROGRAM ADMINISTRATOR	
PUBLIC COMMENTS	18
DISCUSSION OF CANCER PETITION	56
ELIZABETH WARD, PhD, CHAIR	
ADMINISTRATIVE ISSUES AND ADJOURN	214
ELIZABETH WARD, PhD, CHAIR	

### TRANSCRIPT LEGEND

The following transcript contains quoted material. Such material is reproduced as read or spoken.

In the following transcript: a dash (--) indicates an unintentional or purposeful interruption of a sentence. An ellipsis (. . .) indicates halting speech or an unfinished sentence in dialogue or omission(s) of word(s) when reading written material.

-- (sic) denotes an incorrect usage or pronunciation of a word which is transcribed in its original form as reported.

-- (phonetically) indicates a phonetic spelling of the word if no confirmation of the correct spelling is available.

-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

-- "\*" denotes a spelling based on phonetics, without reference available.

-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

## PARTICIPANTS

### Committee Members

#### Occupational Physicians with Experience in Treating WTC Rescue and Recovery Workers:

Steven Markowitz, M.D.

Professor of Environmental Sciences and Director of The Center for The Biology of Natural Systems at Queens College, City University of New York, New York City.

William Rom, M.D., M.P.H.

Professor of Medicine and Environmental Medicine, New York University School of Medicine

Director, Division of Pulmonary and Critical Care Medicine, School of Medicine, New York University, New York City.

#### Occupational Physicians:

Robert Harrison, M.D., M.P.H.

Clinical Professor of Medicine, University of California, San Francisco; Chief, Occupational Health Surveillance and Evaluation Program, California Department of Public Health, San Francisco.

Virginia Weaver, M.D., M.P.H.

Director, Occupational and Environmental Medicine Residency, Bloomberg School of Public Health, Johns Hopkins University, Baltimore.

#### Physician with Pulmonary Medicine Expertise:

Thomas K. Aldrich, M.D.

Professor of Medicine and Director of The Pulmonary Training Program, Albert Einstein College of Medicine, Yeshiva University, New York City.

#### Representatives of WTC Responders:

Stephen Cassidy

President, Uniformed Firefighters Association of Greater New York, Local 94 I.A.F.F. AFL-CIO

1 Valerie Dabas

2 Human Resources Analyst, Patrolmen's Benevolent Association of the City of  
3 New York, Inc., New York City.

4 Guillermina Mejia, M.P.H

5 Certified Health Education Specialist, Principal Program Coordinator, Safety  
6 and Health Department, American Federation of State, County, and  
7 Municipal Employees, District Council 37, New York City.

8 Representative of Certified-Eligible WTC Survivors:

9 Kimberly Flynn,

10 Co-Founder, Director, 9/11 Environmental Action

11 Catherine McVay Hughes

12 Vice Chairman, Community Board 1 World Trade Center Redevelopment  
13 Committee, Lower Manhattan World Trade Center Redevelopment, New  
14 York City.

15 Susan Sidel, J.D.

16 Resident of New York City and volunteer WTC responder.

17 Industrial Hygienist:

18 John Dement, Ph.D.

19 Professor, Community and Family Medicine, Duke University Medical School,  
20 Durham, N.C.

21 Toxicologist:

22 Julia Quint, Ph.D.

23 Research Scientist Supervisor II and Chief, Hazard Evaluation System and  
24 Information Service (HESIS), Occupational Health Branch, California  
25 Department of Public Health (retired), Oakland.

26 Epidemiologist:

27 Elizabeth Ward, Ph.D.

28 National Vice-President for Intramural Research, American Cancer Society,  
29 Atlanta. (Advisory Committee Chair-Person)

30

1       Mental Health Professional:

2       Carol S. North, M.D. M.P.E.

3       Professor, Department of Psychiatry, University of Texas Southwestern  
4       Medical Center, Dallas.

5       Environmental Health Specialists:

6       Glenn Talaska, Ph.D.

7       Certified Industrial Hygienist, Professor, Department of Environmental  
8       Health, University of Cincinnati, Cincinnati.

9       Leonardo Trasande, M.D., M.P.P.

10      Associate Professor in Pediatrics, Environmental Medicine and Health Policy,  
11      New York University; Associate Attending in Pediatrics, Bellevue Hospital  
12      Center, New York City.

13  
14  
15      Designated Federal Official:

16      Paul J. Middendorf, Ph.D., CIH

17      Senior Scientist

18      CDC/NIOSH/Office of the Director

19      Cincinnati, Ohio  
20  
21  
22

**PROCEEDINGS**

(1:00 p.m.)

**WELCOME AND INTRODUCTION**

**DR. MIDDENDORF:** Okay, let's go ahead and start. Good afternoon, everybody, this is Paul Middendorf. I want to extend a warm welcome to the Committee members and --

**THE OPERATOR:** Mr. Middendorf?

**DR. MIDDENDORF:** -- the members of the public who are on the phone with us.

**THE OPERATOR:** Mr. Middendorf?

**DR. MIDDENDORF:** We appreciate your interest in these proceedings. For those of you who have signed up to provide public comments, they are scheduled to begin at one --

**THE OPERATOR:** Paul?

**DR. MIDDENDORF:** Yes?

**THE OPERATOR:** This is the operator. You have to let me know -- are you ready to start that recording?

**DR. MIDDENDORF:** Yes, we're ready to start the recording.

**THE OPERATOR:** Okay. Give me just one second for you. Okay?

**DR. MIDDENDORF:** Yes.

(Pause)

**THE OPERATOR:** Thank you, sir. Your call is being recorded.

**DR. MIDDENDORF:** All right. Thank you. For those of you who have signed up to provide public comments, they're scheduled to begin at 1:10 this afternoon so we'll start those in just a few minutes. I have a few administrative details I need to go over. For our public commenters who are on the phone, I just want to review some telephone conference etiquette. We do want to provide as much public access to these Committee meetings as possible, but it's very important that the Committee members be able to hear, and every member of the public who wants to hear the proceedings be able to hear also. So just to remind you that your phone should be muted until I call your name. If you don't have a mute button on your phone, theoretically you can dial star-6 to mute your phone electronically. And to unmute it you can just

1 repeat that, dial star-6 again. So for the public commenters, when  
2 you've finished with your comments we'll ask you to mute your  
3 phone when you're finished.

4 It's very important for us to remember why we're here and why  
5 we're meeting and set the appropriate tone for the meeting, so  
6 let's spend just a few moments in silence to remember those who  
7 were killed in the attacks on 9/11, and also those responders and  
8 survivors who have since died because of this.

9 (Pause)

10 **UNIDENTIFIED:** Paul, can you hear me?

11 **DR. MIDDENDORF:** Yes.

12 **UNIDENTIFIED:** I have two of your public speakers here in the  
13 room with me, T.J. and Jacques.

14 **DR. MIDDENDORF:** Okay. Please keep your phone on mute until  
15 we ask for them to speak.

16 (Pause)

17 **DR. MIDDENDORF:** Okay. Thank you. We do -- just to remind folks  
18 that copies of the agenda for this half-day telephone meeting can  
19 be found on the Committee's website. If you're logged into the live  
20 meeting or my meetings, it's the web conference part. You should  
21 also be able to see it there as well.

22 Copies of the public comments that were received as of March 27th  
23 around noon have been provided to the Committee before this  
24 meeting so they'd have a chance to see those. They will also be  
25 posted on NIOSH's docket 248, which is also available through the  
26 Committee's website.

27 I'd like to do a roll call for the committee members now. So for the  
28 roll call I'll call out the name of each member and ask you to let me  
29 know that you're on the line. I'll also ask you to state whether or  
30 not there have been any changes in your employment or interests  
31 that would affect your conflict of interest. Also remind you that if  
32 you need to leave the call, please let me know when you leave and  
33 also when you return, to be certain that we continue to have a  
34 quorum. Okay.

35 So Tom Aldrich?



1 **DR. ALDRICH:** Here, and there have been no changes in my conflict  
2 of interest statement.  
3 **DR. MIDDENDORF:** Okay. Steve Cassidy?  
4 **MR. CASSIDY:** (No response)  
5 **DR. MIDDENDORF:** Steve?  
6 **MR. CASSIDY:** (No response)  
7 **DR. MIDDENDORF:** And not hearing, he's not present.  
8 Valerie Dabas?  
9 **MS. DABAS:** I'm here. No changes to my employment.  
10 **DR. MIDDENDORF:** John Dement?  
11 **DR. DEMENT:** I'm here, no changes.  
12 **DR. MIDDENDORF:** Kimberly Flynn?  
13 **MS. FLYNN:** Here, and no changes.  
14 **DR. MIDDENDORF:** Bob Harrison?  
15 **DR. HARRISON:** Here, and no changes.  
16 **DR. MIDDENDORF:** Catherine Hughes?  
17 **MS. HUGHES:** Here, and no changes.  
18 **DR. MIDDENDORF:** Steve Markowitz I don't believe is going to be  
19 on but I'll check -- Steve?  
20 **DR. MARKOWITZ:** (No response)  
21 **DR. MIDDENDORF:** Guille Mejia?  
22 **MS. MEJIA:** I'm here and no changes.  
23 **DR. MIDDENDORF:** Carol North?  
24 **DR. NORTH:** (No response)  
25 **DR. MIDDENDORF:** I don't believe she's going to be on. Okay.  
26 Julia Quint?  
27 **DR. QUINT:** Here, and no changes.  
28 **DR. MIDDENDORF:** Bill Rom?  
29 **DR. ROM:** Here, and no changes.  
30 **DR. MIDDENDORF:** Susan Sidel?  
31 **MS. SIDEL:** Here and no changes.  
32 **DR. MIDDENDORF:** Glenn Talaska?  
33 **DR. TALASKA:** Here and no changes.  
34 **DR. MIDDENDORF:** Leo Trasande?  
35 **DR. TRASANDE:** (No response)

1 **DR. MIDDENDORF:** He said he would probably be on around 2:00,  
2 so he's not here yet.  
3 And Liz Ward?  
4 **DR. WARD:** Here and no changes.  
5 **DR. MIDDENDORF:** Okay. Virginia Weaver?  
6 **DR. WEAVER:** (No response)  
7 **DR. MIDDENDORF:** Okay. Virginia?  
8 **DR. WEAVER:** (No response)  
9 **DR. MIDDENDORF:** We have 12 present. That gives us a quorum.  
10 Okay.  
11 I also want to remind --  
12 **THE OPERATOR:** Hello, I'm going to put Steve Cassidy on, please.  
13 **DR. MIDDENDORF:** Okay.  
14 **THE OPERATOR:** Thank you.  
15 **DR. MIDDENDORF:** Steve, we just did the roll call. Are you there?  
16 **MR. CASSIDY:** (No response)  
17 **DR. MIDDENDORF:** Steve?  
18 **MR. CASSIDY:** (No response)  
19 **DR. MIDDENDORF:** Is Steve Cassidy there yet?  
20 **MR. CASSIDY:** (No response)  
21 **DR. MIDDENDORF:** Okay. Hopefully he'll let us know when he  
22 comes on.  
23 Okay, we do have 12 now. The amount we have is a quorum.  
24 For voting -- I just want to go over the motions and voting  
25 procedures. When a member of the Committee is developing a  
26 motion what I'll do is I'll type it here on the computer so that it's  
27 visible on the screens for those who are logged in to the web  
28 conference, and each of you should be able to see it that way.  
29 When the Chair calls for a vote I will have to do a roll call vote and  
30 I'll ask each of you in turn to say yes, meaning you are voting for  
31 the motion that had been put to the Committee; or no, meaning  
32 you are voting against the motion that had been put to the  
33 Committee; or abstain, meaning you are not voting on that  
34 particular motion. If they recuse for a specific motion, I'll note that  
35 also.

1 I just want to remind everyone that, according to our bylaws, the  
2 majority of those voting determines the outcome.

3 So with that, I'll turn it over to Liz.

4 **DR. WARD:** Hi, and I'd like to add my welcome to Paul's. I think we  
5 should probably proceed directly to John Howard's comments  
6 because of the 1:10 deadline for beginning the public comment.

7 **DR. HOWARD:** Great, thanks, Liz. I appreciate that. And good  
8 afternoon and good morning to every Advisory Committee member  
9 and to all the members of the public, responders and survivors,  
10 other attendees at the meeting. I just want to first of all thank  
11 each Committee member again for your service. Your time and  
12 your advice are greatly appreciated.

13 As I mentioned at your inaugural meeting in November 2011, the  
14 Committee has an important role to play in the World Trade Center  
15 Program. The James Zadroga Act specifies three general areas of  
16 contributions from the Committee, and only three.

17 The first is providing input on eligibility criteria for Pentagon and  
18 Shanksville responders, and modified eligibility criteria for  
19 responders or survivors. The Act requires that, before making a  
20 determination establishing eligibility for Pentagon and Shanksville  
21 responders, the Administrator must consult with the Committee.  
22 As you'll recall, we did this at the last meeting, February 15th, and I  
23 want to thank the Committee for its consultation on the eligibility  
24 criteria for Pentagon and Shanksville responders. At the present  
25 time the regulatory language to add that eligibility criteria is being  
26 prepared and will appear in a future Federal Register notice, as  
27 well as on the World Trade Center website.

28 If the Administrator decides to consider modifying current  
29 statutory eligibility criteria for New York City responders, then -- as  
30 the Act requires -- the Administrator is required to consult with the  
31 Committee for input.

32 In the case of changes in the survivor eligibility the Act requires the  
33 Administrator consult not only with the Scientific Technical  
34 Advisory Committee but also with the steering committees and the  
35 data centers. At this time the Administrator is not planning to do

1 any modification to the current statutory eligibility criteria.  
2 The second major area is identifying research needs. As I  
3 mentioned before, Section 3341(c), pertaining to research, requires  
4 the Administrator seek advice from the Committee. I want to  
5 thank the Committee for its consultation provided at the February  
6 meeting. On March 23rd, 2012, a funding announcement was  
7 published for cooperative research agreements related to the  
8 program. The receipt date for applications is May 21st, and a link  
9 to the announcement can be found at grants dot NIH dot gov.  
10 And thirdly, the third function of the Committee is providing a  
11 recommendation regarding addition of conditions to the list that is  
12 in the statute. As you are aware, we received a petition to add  
13 cancer to the list of statutory conditions on September the 8th,  
14 2011 and, pursuant to the Act, the Administrator requested the  
15 advice of the Advisory Committee and provided a due date for the  
16 recommendation of April 2nd, 2012, which is 180 days from the  
17 date that the Administrator's request, which is in fact the  
18 maximum amount of time permitted by the Act for the Committee  
19 to submit its recommendation.  
20 The Act provides that not later than 60 days after receipt of the  
21 Committee's recommendation -- which, according to the calendar,  
22 counting calendar days, would be June 1st, 2012 -- the  
23 Administrator must publish in the Federal Register a proposed rule  
24 with respect to the Committee's recommendation, or a  
25 determination not to propose a rule and the basis for such  
26 determination. As I said at your November meeting, it's important  
27 to keep in mind as you deliberate today that the Committee was  
28 established by the Act to provide advice of a scientific or technical  
29 nature. Articulating the strongest possible scientific basis for the  
30 Committee's recommendation on Petition 001, including an  
31 evaluation of available information about the level of exposure to  
32 carcinogenic agents, will be of the greatest value to the program.  
33 And certainly I look forward to receiving your recommendation on  
34 Petition 001 by April 2nd, 2012, and will give it the fullest and most  
35 serious consideration.

1 Finally, some Committees -- Committee members have asked what  
 2 does the Committee do after April 2nd, 2012. And as I just stated,  
 3 the Act provides only consultative actions for the Committee in  
 4 relation to the Administrator's determining or modifying eligibility  
 5 criteria, preparing input for research solicitations, or determining  
 6 whether to add health conditions. So the Committee has a limited  
 7 role and meets only at the request of the Administrator based on  
 8 these three program needs. If there's no business to conduct with  
 9 regard to the Committee's consultative duties, then the  
 10 Administrator will not request the Designated Federal Official to  
 11 call a meeting.

12 So again, on behalf of the entire program, thank you very much for  
 13 your service on the Committee and I wish you a very successful  
 14 meeting today. Thank you, Liz.

15 **DR. WARD:** Thank you, John.

16 **PUBLIC COMMENTS**

17 Paul, I'll turn it over to you for public comments.

18 **DR. MIDDENDORF:** Okay, let me check real quick -- Steve Cassidy,  
 19 are you on the line?

20 **MR. CASSIDY:** (No response)

21 **DR. MIDDENDORF:** Steve, are you there? You need to -- Steve, if  
 22 you called in to the general line, you need to call back, you know,  
 23 on the --

24 **MR. CASSIDY:** I am -- I am here.

25 **DR. MIDDENDORF:** Oh, okay, I just couldn't hear you. Okay, great.  
 26 Just wanted to check and make sure you were here.

27 **MR. CASSIDY:** I'm here, thank you.

28 **DR. MIDDENDORF:** All right. Okay, moving on to public comments.  
 29 Each of the public commenters have signed up on a first come, first  
 30 served basis and each of them will have up to five minutes to  
 31 present. I'd like to remind folks that five minutes can go by fairly  
 32 quickly, so in four minutes I will let the commenter know that they  
 33 have one minute remaining so they can be sure to make the point  
 34 they need to. If they haven't finished in five minutes, I have to  
 35 rudely interrupt them and thank them for their comments. I

1 apologize up front to everyone to whom that happens, but we have  
2 to do that to be fair to all our presenters and to stay on time. So I  
3 want to point out that you do have the option of submitting  
4 written comments to the docket for this Committee. The docket  
5 number is 248, and the information on how to submit that is both  
6 on the NIOSH docket web page and on the Committee website.  
7 The last thing I need to do before beginning the comments is to  
8 make sure the commenters are aware of the redaction policy for  
9 public comments. The policy is in the Federal Register notice for  
10 this meeting, and it's also on the Committee's web page. The  
11 policy outlines what information will be kept and what information  
12 will be redacted before it's posted to the docket.

13 So with that, let's go to our public commenters, and our first  
14 commenter is Jim Melius.

15 **DR. MELIUS:** Okay. Thank you, Paul, thank the Committee. I'm Jim  
16 Melius. I'm from the New York State Laborers Union. I'm also chair  
17 of the steering committee for the responders' medical program.  
18 First of all I'd like to thank the Committee for all of your efforts in  
19 working on this issue, responding to the petition, drafting your  
20 recommendations and -- I think very importantly -- drafting the --  
21 really developing and drafting the scientific rationale for these  
22 recommendations. I realize the amount of effort involved. You  
23 didn't have a pattern or template to follow, and I really think that  
24 you've done an excellent job of developing this draft document in a  
25 very short time. So I appreciate it and I know others do also.  
26 I have a few brief comments I'd like to make. One issue that came  
27 up, at least in the development of the document, was some  
28 concerns were raised about the cost and administrative burdens of  
29 adding some number of cancer sites to the list of covered  
30 conditions, and I really think -- feel very strongly that that's --  
31 really shouldn't be a consideration for this Committee. You're only  
32 asked to review the scientific evidence involved, and I think that  
33 the implementation of your recommendation and issues related to  
34 that are something that really is up to NIOSH and to the World  
35 Trade Center Administrator to address going forward. So I really

1 don't think that should be a consideration, nor should the cost of  
2 treatment or -- or issues like that are not something that should be  
3 part of your review process.

4 That I -- again reminding that there's also a second step to this  
5 process, that once a condition is added there's still a diagnosis and  
6 attribution of a particular -- in a particular patient of whether or  
7 not that cancer is World Trade Center-related and a certification of  
8 that attribution by the World Trade Center Administrator. So I  
9 think the administrative issues can be dealt with through that. And  
10 again, it's not everybody with the conditions that are included in  
11 the program. There -- there is a second step to this.

12 Secondly, I'd like to raise an issue of -- you already have it partially  
13 covered, but I recognize that you're not in a position to review data  
14 that's not been published yet, but you do acknowledge that there  
15 are studies that I believe both have been submitted for publication  
16 and for public -- that's both the Registry and the Mount Sinai  
17 Program, and -- and I -- you have a general recommendation that  
18 the Administrator should take those into account. If there's a  
19 particular cancer site that you're discussing and whatever, you  
20 think there's a particular issue that they should address based on  
21 those, I think this may come up for prostate and thyroid cancer, I  
22 would make -- do that as a specific recommendation 'cause it's well  
23 possible that both of those studies will be published by the time  
24 that the Administrator is in the process of developing his  
25 recommendation and his Federal Register notice. And so those  
26 may be very well available by that time and could well be  
27 considered in that process.

28 Finally, I would just point out particularly two cancers that are left  
29 off your list as we -- as I understand your report. One is breast  
30 cancer, which -- I realize there's not a great deal of literature  
31 linking breast cancer to occupational exposures, but I think we all  
32 have to recognize that that is a result of the fact that there were  
33 very few women working in most of the industries, at least in the  
34 past, where cancer was studied and where there were exposures to  
35 many of these carcinogenic agents, and --

1 **DR. MIDDENDORF:** One minute, please.

2 **DR. MELIUS:** -- I'm not sure that there's been a, you know, sort of  
3 a fair assessment of that. And I would ask you to sort of reconsider  
4 that. I believe you have a -- sort of set aside the -- an issue of  
5 female cancers, and I think that is -- probably falls under -- under  
6 that particular subject.

7 The second cancer I'd ask you to reconsider is brain cancer. Again,  
8 the literature may not be as strong as it is for some of the other  
9 cancer sites, but certainly it's something that's repeatedly showing  
10 up in studies of firefighters, as well as in petrochemical workers in  
11 the past and ongoing studies and it is something that -- I think  
12 there's a fair amount of evidence that it's related to chemical  
13 exposures, though again maybe not as strong as some of the other  
14 cancers you've listed and I think that deserves some  
15 reconsideration. So --

16 **DR. MIDDENDORF:** That's five minutes.

17 **DR. MELIUS:** -- thank you for your efforts and good luck going  
18 forward this afternoon.

19 **DR. MIDDENDORF:** Thank you, Jim. Our next public commenter is  
20 Lila Nordstrom.

21 **MS. NORDSTROM:** Hi, I'm here. Should I begin? I was a student at  
22 Stuyvesant High School on 9/11 and I'm the head of Stuy Health,  
23 which is an advocacy group for Stuy alumni who were there on that  
24 day. We were just three blocks from the World Trade Center and  
25 we were inside of our building until about 10:30 on the day. A lot  
26 of us left the building after the dust cloud had already reached  
27 Stuyvesant, and then later the school was used as a command  
28 center for the rescue effort and not adequately cleaned ever  
29 before we reoccupied it on October 9th in 2001. It was only three  
30 weeks after the attacks. There was smoke and ash blown into our  
31 school daily, and the barge -- the garbage barge for the debris was  
32 right next to our school. It was right next to our air intake system,  
33 and environmental testing showed that levels of particulate matter  
34 outside Stuyvesant were often higher than they were at Ground  
35 Zero.



1 I wanted to talk a little bit about some of the health conditions that  
2 members of Stuyvesant are experiencing -- sorry, I'm on the street  
3 and there's cars coming all of a sudden. Acid reflux and coughs and  
4 respiratory problems were already pretty widespread among the  
5 Stuyvesant population, but we have anecdotal reports of cancers  
6 that are growing, as well as some autoimmune disorders. In the  
7 last five years at least six cancers have been reported to me by  
8 former classmates.

9 Nick Friedlander\* from the class of 2002, I'm sure you've heard  
10 from before, was diagnosed with Hodgkin's lymphoma in 2006.  
11 He'd had severe flu and cold-like symptoms for years, and he  
12 believes that environmental factors played a part in his diagnosis.  
13 Howie Salz\* from the class of 2002 was diagnosed with non-  
14 Hodgkin's lymphoma last summer, in August. She went through six  
15 rounds of chemotherapy over the course of four months. She's a  
16 teacher. She was unable to attend work at all during that time and  
17 she's in remission right now, but her treatment caused her to  
18 develop blood clots in her heart and a clogged vein near her heart,  
19 so she's on blood thinners and she's getting monitored every few  
20 days by giving blood.

21 Courtney Hughes from the class of 2002 has had two major  
22 surgeries in the last six years to remove multiple synthroidonomas  
23 (sic), which are benign tumors. She had them on both of her  
24 ovaries. These types of benign tumors are really rare in younger  
25 women. She had no family history of this. And in some cases these  
26 cysts actually turn out to be cancerous. She's been told that they'll  
27 likely keep growing back and require further surgeries, and the last  
28 surgery that she had she almost had to have while she was  
29 pregnant. She ended up going under the knife three months after  
30 giving birth, and she also believes that environmental factors  
31 played some role.

32 There's also a thyroid cancer in the graduates of class of 2002, and  
33 then for the class of 2003 the Columbia Spectator in 2007 reported  
34 that Sam Cross was diagnosed with acute myelogenic leukemia,  
35 which is a really rapidly-growing cancer in the blood and bone

1 marrow. It's normally found in much older adults than he was at  
2 the time. He was in college at the time, and he had to have a bone  
3 marrow transplant.

4 And then we also have reports of a melanoma from the class of  
5 2003. It was removed, it hadn't spread and it was removed in  
6 2009.

7 But these are just the cases that we know about anecdotally.  
8 There are surely more than this, especially in the younger classes  
9 who -- who, you know, are younger than the class of 2002 and  
10 2003, and will probably develop similar conditions in the future.  
11 There's already four cancers from my class alone, and that's in  
12 addition to the numerous other 9/11-related health conditions that  
13 people are reporting from these classes.

14 None of these cases have visited the 9/11 Health Center because  
15 they spend their whole lives at the doctor's and they, you know,  
16 don't necessarily have the ability to spend a full day getting  
17 treatment for something that is not their main health problem. But  
18 --

19 **DR. MIDDENDORF:** Four minutes.

20 **MS. NORDSTROM:** -- it's really important -- it's really important  
21 that they be able to be treated at these centers. You know, we're -  
22 - we're at an age where we're -- you know, high numbers of us are  
23 uninsured. We're spread out all over the nation. A lot of us are  
24 already being excluded from health coverage based on 9/11-related  
25 preexisting conditions. I personally have had that experience in  
26 California and I know other classmates of mine have as well. So it's  
27 -- these cases are certainly going to keep appearing and there are  
28 certainly already an alarming number, so it's really important that  
29 we have somewhere to go where we can get treated for these  
30 conditions, and also so that we know what to expect, you know, so  
31 that we know what the rest of the students at Stuyvesant should be  
32 looking out for and how -- how these conditions are, you know,  
33 going to affect us in the future.

34 I think that's it for me. Thanks so much --

35 **DR. MIDDENDORF:** Thank you very much.

1 **MS. NORDSTROM:** -- for your time. Okay, bye.

2 **DR. MIDDENDORF:** Our next presenter is Micki Siegel de  
3 Hernandez.

4 **MS. SIEGEL DE HERNANDEZ:** Hi, thank you, Paul. My name is Micki  
5 Siegel de Hernandez. I'm the Health and Safety Director for the  
6 Communications Workers of America in District One. Our union  
7 represents different groups of 9/11 responders, as well as area  
8 workers affected by the events of 9/11 and subsequent exposures.  
9 The Committee should be commended for the work that went into  
10 the draft recommendations. There was clearly an enormous  
11 amount of thought and effort put into the draft. And the body of  
12 scientific evidence that was compiled in such a short amount of  
13 time is impressive. The STAC should also be commended for  
14 recognizing in this draft that the lack of quantitative exposure data  
15 is not evidence of a lack of exposure.  
16 Our union advocates the inclusion of all cancers in the list of World  
17 Trade Center covered conditions, and believes there is ample  
18 rationale for that recommendation.  
19 On page two of the draft -- the STAC draft -- it says, quote, 'Many  
20 substances present in World Trade Center dust and smoke have  
21 been classified by IARC as known, probable, or possible carcinogens  
22 based on animal studies and mechanistic data, and the Committee  
23 believes that such evidence is highly predictive for human  
24 carcinogenicity. However, because there is limited concordance  
25 between specific cancer sites affected in humans and animals, only  
26 those substances classified based on human data are informative  
27 regarding organ sites of carcinogenicity in humans' end quote.  
28 Therefore, many World Trade Center contaminants for which the  
29 evidence as recognized by the STAC as highly predictive for human  
30 carcinogenicity were removed from consideration in the STAC's  
31 deliberations because specific cancer sites in humans could not be  
32 determined.  
33 Instead, I would urge the STAC to reconsider this and recognize  
34 that the presence of multiple carcinogenic substances supported by  
35 IARC documentation, scientific documentation, and known to have

1           been present in World Trade Center contamination but for which  
2           human cancer sites cannot be predicted, as lending scientific  
3           credence to the inclusion of all cancers. If instead the Committee  
4           decides to include only certain cancers and exclude others, it is  
5           then incumbent upon the Committee to provide stronger support  
6           than is in the current draft as to why those cancers not  
7           recommended for inclusion could not be considered potentially  
8           World Trade Center related.

9           And lastly, I want to echo what Dr. Melius said earlier and to  
10          remind the STAC that the list of World Trade Center covered  
11          conditions is not presumptive for any of the diseases currently on  
12          the list, and similarly will not be presumptive for cancer. It will still  
13          be up to a treating physician to determine World Trade Center  
14          relatedness and attribution for any given individual based upon  
15          many, many factors, including an individual's personal and medical  
16          history, World Trade Center exposures, temporality of disease  
17          onset or exacerbation, medical exams, test results, co-morbidities,  
18          et cetera.

19          Thank you.

20          **DR. MIDDENDORF:** Thanks, Micki. Next commenter is Frank  
21          Tramontano.

22          **MR. TRAMONTANO:** Hi, good afternoon, this is Frank Tramontano  
23          from -- from the Patrolmen's Benevolent Association. This  
24          Committee has heard testimony about how the sampling data for  
25          the various carcinogens at the World Trade Center site were  
26          limited and how no samples were collected until four days after  
27          9/11. Testimony also revealed how the samples were collected not  
28          to capture the highest exposures and not in a manner to estimate  
29          exposures for workers on the Pile. The Committee still only has  
30          one cancer study published to date to use in making this decision  
31          on the inclusion of cancers. Despite these shortcomings, this  
32          Committee in its March 18th draft has determined there is  
33          sufficient evidence to confirm that those who were exposed to  
34          carcinogens at the World Trade Center site have an elevated risk of  
35          developing cancer. However, the draft document arguments (sic)

1 against recommending all cancers be covered. Some of those  
2 arguments presented against recommending all cancers are based  
3 on resources required to implement such a recommendation, while  
4 other arguments project how cancer patients and health providers  
5 would react. We feel these arguments should be considered  
6 outside the scope of the Committee's charge.

7 We support and strongly agree with the arguments presented in  
8 favor of adding all cancers. Some of these arguments include the  
9 large volume of toxic materials present in the World Trade Center,  
10 the presence of multiple exposures and mixtures with the potential  
11 to act together to produce unexpected health effects, the major  
12 gap in the data with respect to the range and level of carcinogens  
13 and the limitations of testing for the carcinogenic nature of the  
14 many chemicals and agents identified at the World Trade Center.  
15 These arguments, along with some of the key findings in the FDNY  
16 study, are more than sufficient to support all cancer  
17 recommendation to the program Administrator.

18 After ten and a half years, the only cancer study completed is the  
19 FDNY study. This study does not include data beyond 2008, and  
20 the surveillance bias included in that study reduces the data back  
21 to 2006. The fact that the cancer cases identified in the  
22 surveillance bias were not early stage tumors and that Dr. Prezant  
23 has testified before this Committee that the non-exposed group  
24 have a good rate of participation in the FDNY monthly program  
25 should suggest -- should question the relevance of the surveillance  
26 bias.

27 Additionally, both the Mount Sinai and the New York City  
28 Department of Health cancer studies, which have been promised to  
29 this Committee but have yet to come out, appear to support the  
30 findings of the FDNY study, despite those studies having some  
31 serious limitations, not the least of which is failing to include 70  
32 police officer responders that we know were diagnosed with cancer  
33 within the time frame covered in these studies.

34 Yet despite having only one study with the new qualifications, we  
35 believe there is sufficient scientific and medical evidence that

1 exists to support adding all cancers. We base this belief on the fact  
2 that the FDNY study showed that the increased growth in cancers  
3 of exposed firefighters versus non-exposed firefighters was  
4 significantly higher in the later period of the study, from 2005 to  
5 2008, than it was in the earlier period. Furthermore, it is logical  
6 and acceptable for this Committee to accept that difference to  
7 grow, thus establishing an even greater support for all the cancer  
8 recommendation -- for an all-cancer recommendation. It would be  
9 helpful if this Committee had an updated analysis through 2011  
10 from the FDNY, using the same standard as in the original cancer  
11 study of self-reported cases that have pathological confirmation.  
12 The Committee's recommendation -- recommended approach is to  
13 vote on individual cancers. This approach appears to leave out at  
14 least two cancers that we believe there is evidence of being WTC-  
15 related. The PBA has eight brain cancers -- cancer cases reported  
16 to us with an average age of diagnosis of 36. The annual national  
17 average is 6.5 per 100,000 with an average age of 56. Clearly the  
18 average age for diagnosis that we have suggests something  
19 unusual. We are asking that an immediate review be done on all  
20 the brain cancer cases compiled by all the brain -- by all the cancer  
21 study groups to determine the real rate of brain cancer among the  
22 responder population.

23 Pancreatic cancer is another cancer we believe warrants a more  
24 comprehensive review before it's left off the list. The PBA has six  
25 pancreatic cancer cases reported to us with an average age of 48,  
26 and the FDNY cancer study lists five pancreatic cancers. The same  
27 issues can be raised with the cancer -- with this cancer, with our  
28 average age of diagnosis being 48, when it is 72 among the general  
29 population --

30 **DR. MIDDENDORF:** One minute.

31 **MR. TRAMONTANO:** -- suggesting that this, too, is a cancer that  
32 demands immediate review.

33 Additionally, we do not -- we do not understand why pancreatic  
34 cancer isn't being recommended for approval since it appears to  
35 meet the Committee's specific criteria of arising in regions other

1 than the digestive tract. This Committee has a responsibility to at  
2 least recommend that a further review be done on these two  
3 cancers and the results be reported to the program Administrator.  
4 We must remember there are real lives that hang in the balance,  
5 making it worthy of a more comprehensive review.  
6 Finally, we must remember that while the information before this  
7 Committee hasn't changed in the last six weeks, there have been  
8 changes in the lives of responders who have -- who are being  
9 diagnosed with cancer. It is exactly for this reason Congress has  
10 mandated that cancer -- that this cancer issue be reviewed. The  
11 men and women who responded that day who are sick with cancer  
12 today and need treatment are relying on this Committee to leave  
13 no stone unturned in their review of the medical and scientific  
14 evidence establishing the exposure between responders and  
15 cancer. It is for these reasons we request the Committee to  
16 require an additional review for brain and pancreatic cancer if they  
17 choose today not to approve those cancers for treatment.  
18 Thank you.

19 **DR. MIDDENDORF:** Thank you very much. Our next presenter is  
20 Mary Perillo.

21 **MS. PERILLO:** Hello? Can you hear me?

22 **DR. MIDDENDORF:** Yes.

23 **MS. PERILLO:** Okay. Do you have my pictures?

24 **DR. MIDDENDORF:** Yes. When you tell me to put them up I will try  
25 to bring them up on the web conference.

26 **MS. PERILLO:** Okay, let's start with number one.

27 **DR. MIDDENDORF:** It doesn't look like it's going to work. There  
28 appears to be something wrong with the photograph. Let me try  
29 the second one -- no, there seems to be a problem with them.

30 **MS. PERILLO:** Okay. Is there a way that they can be entered into  
31 testimony with my --

32 **DR. MIDDENDORF:** We can attach them at the end of the docket,  
33 yes.

34 **MS. PERILLO:** Yeah, okay, great. Then I'll just --

35 **DR. MIDDENDORF:** I'll ask you to send me a new copy of them.

1           **MS. PERILLO:** Okay, that's fine. On September 11th my building,  
2           which is on the south border of the World Trade Center site, was  
3           very much involved. A number -- it remained standing, but a  
4           number of the windows -- all the windows on the west side and the  
5           north side and a couple of other windows in the building were  
6           blown in. And along with the windows blowing in, a tidal wave of  
7           World Trade Center debris also blew in the broken windows that  
8           included things from the sizes of 11-foot window flashings and  
9           computers, corners of desks, rugs, phones, to things in particle size  
10          so small as under -- what was it, what was our old number size?  
11          It's been such a long time since I've done the numbers. We needed  
12          to be clean below -- Kimberly, help me -- so many microns. But  
13          whatever it was, we were way -- we were way off the charts in  
14          terms of what was safe to breathe, even though at the time we  
15          were being told that it was okay to go back in. And we went back  
16          in with police escort to try to dig through the say three-foot deep  
17          in the corner piles of dust and debris and find, I don't know,  
18          personal photographs, my mom's engagement ring -- we went  
19          through to find things at first.  
20          And then we went through and worked for weeks and weeks and  
21          weeks shoveling because our landlord said that he wouldn't clean  
22          the building unless it was empty -- and empty of everything but  
23          solid wood or metal. So we started doing that, all the while  
24          pleading to the EPA and the DEP and the DEC and anybody who  
25          would listen. I called the USGS and UC California Davis to see if we  
26          could get numbers, tests and help with the cleanup. When we  
27          finally found out that we had pretty much everything that Deutsche  
28          Bank had in our apartment -- the pile was basically in our  
29          apartments -- I called an old geology professor and he sent  
30          someone to estimate a proper cleaning of my space, which was  
31          \$26,000 so that was pretty impossible.  
32          And then finally the EPA was convinced by the community to assist  
33          with the cleanup, and we were one of the test buildings for the  
34          cleanup. September 15th, 2002 was the day our cleanup began, so  
35          in the year before that we spent a lot of time not living in the



1 building but clearing out the building ourselves. And without  
2 electricity and water, we weren't doing a very good job of it and we  
3 were taking it all to wherever it was we were living at the time.  
4 So when our cleaning began it was a year and three days later,  
5 something like that, and it was three shifts a day, seven days a  
6 week for a month to clean one 12-story building with about 20  
7 apartments. And mine failed three times in a row. It didn't clear  
8 three times in a row and had to re-clean it, re-clean it, just  
9 basically hosed it down till there was nothing left but water on the  
10 walls, and I even tore some walls down to make sure that walls that  
11 were perfectly flush to the floor were not harboring stuff I'd have  
12 to breathe for the rest of my life in the building where I still live.  
13 The best -- the best I can remember about the chemicals in our  
14 dust is that it exceeded pretty much every exceedence (sic) that  
15 was found in all the other places that were tested. I still own some  
16 of the dust in a baggie. If anybody would like to test it now you  
17 can have new samples. I don't know what happens to it after more  
18 than ten years, but I know that there are two people in a lab who  
19 know the numbers on what we had, and I know that we were  
20 exposed to way too much, way too small particles for way too long,  
21 and I really hope that you do add the cancers to the list, and also  
22 that you add the community that was exposed. We really are very  
23 grateful to the first responders who were there, and we were  
24 there, too. We were next to them.

25 Okay? Thank you.

26 **DR. MIDDENDORF:** Thank you very much, Mary.

27 **MS. PERILLO:** Okay.

28 **DR. MIDDENDORF:** Our next presenter is Jo Polett.

29 **MS. POLETT:** My name is Jo Polett and I live seven blocks north of  
30 the World Trade Center site. I'm impressed by the Committee's  
31 grasp of the complexity and variety of toxic exposures within and  
32 across the populations with which the master draft is concerned. I  
33 do, though, have a couple of edits that I hope you'll accept.

34 On page 11, lines 18 and 19, the document states 'Dust entered  
35 buildings through broken windows, open windows and air intakes.'

1 The fact is dust also entered buildings through closed windows.  
2 Given the mass and force of the collapse cloud, buildings in its path  
3 acted as sieves for the dust. So while a lot less dust entered a  
4 building through a closed window than through a broken or open  
5 window, the dust that made it through closed windows had  
6 proportionately higher amounts of very small, highly respirable  
7 particles. I ask that you amend the statement to read 'Dust  
8 entered buildings through broken windows, open windows, closed  
9 windows and air intakes.' An additional advantage of the proposed  
10 correction is that it broadens the statement to cover the smoke-  
11 borne particles referenced earlier in the draft that permeated the  
12 closed windows of lower Manhattan buildings for months following  
13 the attacks.

14 For the second edit please go to page 18, line 16 of the draft.  
15 Quote, 'The US EPA did not find elevated levels of TCDD and house  
16 dust,' end of quote. I understand that the aim of the paragraph is  
17 to lay out the various conflicting findings regarding the quantities  
18 of dioxins, furans and PCBs released by the attack in its aftermath.  
19 Indeed, the sentence in question is immediately countered by a  
20 sentence referencing the window film analyses that found high  
21 levels of TCDD adhering to the outside of windows in buildings  
22 within one kilometer of the site. However, the implication is that  
23 the US EPA findings and the window film analyses deserve equal  
24 weight. They do not. EPA scientists were constrained by EPA's  
25 liability concerns. The Canadian team that conducted the window  
26 sampling had no such constraints. Further, the EPA finding is not  
27 sourced, though I expect it will be in the discussion that follows. In  
28 any case, before an EPA finding can be accepted as credible, the  
29 sampling method must be reviewed and the conduct of the method  
30 must be assessed. In cases where it's not possible to charter a time  
31 machine and watch EPA collecting the samples, negative findings  
32 must be considered suspect.

33 I know this because I was present when EPA sampled my apartment  
34 for heavy metals and dioxins during the first test and clean  
35 program that launched in May of 2002. When I saw that the EPA

1 sampling technicians were setting up to collect the samples from  
2 my kitchen counter, I insisted that they collect the samples from a  
3 surface more likely to harbor contaminants. After a lengthy  
4 argument, the technicians agreed to collect the samples from the  
5 wood floor of my bedroom instead of the kitchen counter.

6 As reported at the first meeting of this Committee, the wide  
7 sample results from my bedroom floor was 127 micrograms per  
8 square foot. The results for antimony was 1090 micrograms per  
9 square foot. Had I not been present during the sampling and  
10 fought with EPA's technicians, the presence of WTC-derived heavy  
11 metals in my apartment would have gone undetected.

12 For support of my contention that EPA's WTC findings were  
13 constrained and corrupted by EPA's liability and policy concerns, I  
14 refer you to the summary report of the US EPA technical peer  
15 review meeting on the draft document entitled 'Exposure and  
16 Human Health Evaluation of the Airborne Pollution from the World  
17 Trade Center Disaster.' The peer review committee met in July of  
18 2003 and published its report the following December.

19 **DR. MIDDENDORF:** One minute, please.

20 **MS. POLETT:** A major purpose of the EPA's document was to  
21 obfuscate the difference between conditions indoors and  
22 conditions outdoors and state, quote, 'Except for exposures on  
23 September 11th and possibly during the next few days, persons in  
24 the surrounding community were unlikely to suffer short term or  
25 long term adverse health effects.' Peer reviewers unanimously  
26 rejected this ploy, insisting that EPA make a clear distinction  
27 between exposures to ambient air and indoor and occupations  
28 exposures. They took the additional step of suggesting that EPA  
29 convene an independent group such as the National Academy of  
30 Sciences to analyze the indoor air data because they were so  
31 discouraged by EPA's use of suspect data to support its analysis of  
32 indoor air conditions.

33 **DR. MIDDENDORF:** Five minutes, Ms. Polett.

34 **MS. POLETT:** I ask that the Committee appropriately qualify the  
35 EPA finding in question or delete it from the paragraph entirely.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35

Thank you.

**DR. MIDDENDORF:** Thank you very much. Our next presenter is T.J. Gilmartin.

**MR. GILMARTIN:** Yes, T.J. Gilmartin here. I'm 31 years as a shop steward with United Cement Masons Union in New York building high-rises. I've already spoken once before at the federal plaza. Now I just want to reiterate that in the 31 years that I was on a construction site, everything that was at the Trade Center according to the OSHA standards, I just can't see how they can't put some of these OSHA standards to everything that was down there -- the silicas, the dust -- the concrete dust, the asbestos. I mean this is all stuff that, when I was on a construction site, I would have got locked up or fined very high if I didn't have respirators on and all. I mean just common sense tells me if you're putting up these buildings and they have such high standards for us putting up the buildings, what happens when two of them come crashing down all at one time? And these buildings -- I mean it's just common sense.

And you know, I just want to thank you for all the intent, everything you've done, and I just want to add one other quick point, that as much as you're doing this, I really appreciate it. Don't let -- there's a lot of people coming out of the woodwork. Even if you add this cancer and these cancers get added, you're going to have everybody and their mother, pardon my French, coming out of the woodwork, swearing that it was from the World Trade Center. There are some real heroes that deserve -- deserve to be taken care of, but there's als-- don't let the frauds discourage you from what you're doing. You guys do a great job.

And now when -- I've got a few minutes. I have somebody else to speak in my -- the rest of my time spot.

**UNIDENTIFIED:** Here is Chris Kraft, giving up T.J.'s time.

**MS. KRAFT:** My name is Christine Kraft. I am a retired clinical social worker. On 9/11 I was already retired from my job and I was a member of the Red Cross Disaster Mental Health Team. And as such, on 9/11 we were dispatched down to Ground Zero, I had full

1 Ground Zero clearance. My job was to go down to Ground Zero to  
2 take care of all of the first responders who were there, to make  
3 sure everybody was okay. I will tell you right now that I have  
4 several medical conditions. I have nodules in my lungs. I have  
5 Hashimoto's thyroiditis. I have GERD's. I have a blown sinus, and I  
6 have strange neuromuscular disorders. I was breathing that stuff  
7 for quite some time.

8 My sister-in-law, who was down there for four days, has thyroid  
9 cancer and she recently had half of her thyroid removed. I also  
10 personally know many other people who have Hashimoto's  
11 thyroiditis, as well as nodules of the thyroid -- which I also have --  
12 which have so far not been diagnosed as cancer but there is a  
13 chance that it will. They told my sister-in-law there was nothing --  
14 even after a biopsy was done, they said it was probably not -- not  
15 cancer, but it turned out that -- she chose to have the surgery and  
16 it turned out to be cancer as well.

17 I know a friend of mine who was 12 years old and a student in the  
18 area at the time, she now has thyroiditis as well, Hashimoto's. This  
19 is a common disorder of middle-aged women. She is 20 years old.  
20 I also know someone else who lived in the building that was near  
21 the World Trade Center. She is a guide down there as well, and she  
22 now has Hashimoto's as well. She is under the age of 40.

23 Nobody in my family or any of my friends' families ever had any  
24 problems with the thyroid. Before that I was a runner. I was very  
25 healthy, and I never thought in a million years that this would  
26 happen to me. But at the same time, what we were breathing  
27 there, and I'd like to follow the gentleman that was recently up, I  
28 can stand in a room with second-hand smoke and that exposes me  
29 to lung cancer. But I was in the pit of hell with every -- every  
30 substance known to man and breathing that outright for days and  
31 days on end and that doesn't cause cancer at all.

32 **DR. MIDDENDORF:** One minute, please.

33 **MS. KRAFT:** It's the logic that -- that it would be. Thank you very  
34 much for your time.

35 **UNIDENTIFIED:** Thank you. Joe Morrone, a downtown resident, is

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35

going to use the remaining minute.

**MR. MORRONE:** Hi, my name is Joe Morrone. I'm a resident of Southbridge Towers. At the time of the attacks on the Trade Center I worked on the New York Stock Exchange floor, and I was President of the Board of Directors of Southbridge Towers. So -- and that was right in the line of all that smoke and everything. I was just recently -- I remember the CDC coming down with Nadler to talk to the Board of Directors at the time, to talk to our co-op in February of 2002, telling us that the air was clear. And just so you know, I asked him to leave and not insult my intelligence because we didn't know about what bomb we were breathing because it was just asbestos or just PCB or just lead, I could understand it, but with all the particles that we were breathing with the Trade Center being vaporized the way it was, I knew that eventually something would happen. And ten years -- almost ten years to the day I was diagnosed with a mass -- a real -- a mass on my kidney and --

**DR. MIDDENDORF:** Your five minutes is up, please.

**MR. MORRONE:** I'm sorry?

**DR. MIDDENDORF:** The five minutes is up. Thank you very much.

**MR. MORRONE:** Thank you.

**DR. MIDDENDORF:** Could I get the last gentleman's name, please?

**MR. MORRONE:** Sure, my name is Joe Morrone, M-o-r-r-o-n-e.

**UNIDENTIFIED:** And he lived and worked downtown.

**MR. MORRONE:** I worked on Wall Street, New York Stock Exchange, and I lived there also with my children.

**DR. MIDDENDORF:** Okay, the name is Joe Morrone, M-o-r-o-n-e (sic)?

**MR. MORRONE:** M-o-r-r -- double-r -- o-n-e.

**DR. MIDDENDORF:** Okay, thank you very much. Our next presenter is Jacques Capsouto.

**UNIDENTIFIED:** Jacques Capsouto's right here as well.

**DR. MIDDENDORF:** Okay.

**MR. CAPSOUTO:** Hi, my name is Jacques Capsouto. I'm a resident and business in Tribeca. I'm here to talk about Albert Capsouto, my younger brother, who died of brain cancer -- I'm repeating,

1 brain cancer, which you have not included. He was diagnosed  
 2 November 16th, 2009 and died January 19th, 2010, nine weeks  
 3 after he got diagnosed. Albert was involved in the community, part  
 4 of community board one, for 19 years. After 9/11 it became a full-  
 5 time job to reconstruct downtown, so if I get emotional... He was  
 6 involved in four or five committees and he used to spend all his  
 7 time going by bicycle downtown to the -- to the Ground Zero. He --  
 8 sorry. He got diagnosed with glioblastoma (sic) number four,  
 9 which is a brain cancer, a mark of brain cancer. He died very  
 10 quickly. The cancer really disabled him so fast that -- he  
 11 deteriorate so fast that we didn't even have time to communicate.  
 12 We -- we opened a restaurant in Tribeca and we stayed open and  
 13 we fed people and we became a center for people to have -- for the  
 14 community to be able to have a place to gather together, so we  
 15 gave food away for 17 days. The name of the restaurant is  
 16 Capsouto Freres and is at 451 Washington Street, and we reside at  
 17 457 Washington Street, which is in Tribeca.

18 And I hope that you take my statement as a testimony to include  
 19 brain cancer. Please include it. He was very young and died very  
 20 quickly, and I think...

21 **UNIDENTIFIED:** And he never moved out of the area, either.

22 **MR. CAPSOUTO:** We -- we live in the area and then my mother --  
 23 we all of -- the whole family lives downtown and he's the only one  
 24 that came out so quick, so fast. My mom also lived in the area,  
 25 also died of liver cancer. They say there was -- they say there was  
 26 health -- that it was no problem being downtown. We had the  
 27 people from Con Edison bringing the dust to the restaurant. We  
 28 had to feed the firemen coming in the first two, three days, coming  
 29 in with the dust all over their clothes, coming into the restaurant.  
 30 We had -- but Albert was really involved. He must have spent  
 31 maybe three or four days going downtown on his bicycle to help  
 32 the small businesses, to help reconstruct downtown. As a matter  
 33 of fact, on October 28th of last year a park was dedicated to his  
 34 name on the -- on Canal and Valley and Lake Streets. If you -- the  
 35 park was the property of the Port Authority and he negotiated for

1 the Port Authority to give the land to the Park Department and  
2 that's --

3 **DR. MIDDENDORF:** One minute, please.

4 **MR. CAPSOUTO:** -- the reason that the park was named after him.  
5 I think I've said enough, and I think -- I think you should consider  
6 brain cancer as another cancer to add to your list. I thank you.  
7 Have a nice afternoon and I hope you all do a good job on the -- on  
8 this Committee. Thank you.

9 **DR. MIDDENDORF:** Thank you very much, Jacques. I want to thank  
10 each of our public commenters for providing their perspective and  
11 their insight to the Committee, and it's always very helpful to hear  
12 from the people who live and work in that area. So on behalf of  
13 the Committee I want to thank each of you for coming and  
14 providing your information.

#### 15 **DISCUSSION OF CANCER PETITION**

16 Before I turn this over to Liz, I just -- and as the Committee dives  
17 into the decision-making part of the meeting, I want to just take a  
18 minute to remind the Committee members what Dr. Howard  
19 mentioned in his statement about the need to articulate the  
20 scientific basis for their arguments. Looking out from the  
21 administrative perspective to add conditions to the list, he needs  
22 to know why a specific health condition or, in this case for this  
23 petition, cancer or a specific type of cancer should be added to the  
24 list of covered conditions. To accomplish this requires careful  
25 building of arguments based on scientific evidence to make the  
26 case for adding a specific health condition or cancer. That  
27 evidence -- it will come from the available information on  
28 exposure, epidemiology, toxicology, and it's important to  
29 understand that this approach is based on an examination of the  
30 best available evidence. It is not an approach based on merely  
31 presuming the cancer is a likely health effect that may result from  
32 the World Trade Center exposures. It won't be helpful to  
33 recommend to the Administrator that he presume that a condition  
34 should be added to the list unless the scientific evidence  
35 demonstrates that it shouldn't be on the list.



1 In moving forward, the Administrator will have to make the case  
2 for adding conditions, so the Committee will be most helpful if it  
3 presents the scientific arguments for adding conditions. If you  
4 want to say that another way, what the Administrator needs is for  
5 the Committee to answer the question 'Should this condition be  
6 added to the list?' for each of the conditions it decides to  
7 recommend for addition.

8 So I'll turn it back over to Liz.

9 **DR. TRASANDE:** Paul, may -- this is Leo Trasande. I apologize for  
10 interrupting but I realized I wasn't in at the earliest part of the call  
11 and I just wanted to document that I was here.

12 **DR. MIDDENDORF:** Okay. Thank you very much. So Liz?

13 **DR. WARD:** Yes. So Paul and I talked a bit about how to best run  
14 this meeting, given the challenges of having this meeting be a  
15 teleconference, and also the need to really have a more formal  
16 style of meeting using Robert's Rules of Order, and my sugges-- or  
17 our suggestion is that we really look at the cover letter to Dr.  
18 Howard and go through -- go through it kind of in sequence and  
19 that -- so for example if it should talk about the first option of  
20 recommendations to include all cancers as World Trade Center-  
21 related conditions, the floor would be open for a motion to  
22 approve that recommendation, then a second, then there would be  
23 discussion, and then we would call for a vote.

24 With regard to the second option, there's a couple of ways that we  
25 can proceed on that. We can have a motion to accept the second  
26 op-- assuming that the first -- I mean if the first option -- the first  
27 option is approved by the Committee, then obviously we don't  
28 proceed to the second option, although we may talk about some  
29 ways that the information that was compiled for the -- in the  
30 second option might be used in the report. But -- but if the  
31 Committee does not vote to go with option one, then we'll move  
32 on to option two. And we can either consider option two as just  
33 accepting all of the cancers listed in option two, or we can have a  
34 motion to vote on each of the individual sites and site groupings  
35 that were broken out.

1 I assume it's also in order that we could entertain motions to add  
2 sites or organ systems that were not included in the draft cover  
3 letter. But one thing we have to keep in mind is that if we add a  
4 site or organ group, at this point we need to draft text that would  
5 support that recommendation because, as I understand this from  
6 Paul, essentially all of the writing on major points needs to be done  
7 at the meeting and not later.

8 I should also make you aware that I know that the draft that was  
9 posted had some minor typographical errors and the references  
10 were not completely compiled. I've been working on that in the  
11 interim and, you know, we'll make every effort to make sure that  
12 the final document is properly formatted and doesn't include any  
13 errors.

14 So the way we're going to work this meeting is that Paul will  
15 actually be making the changes to the draft document that was  
16 circulated, or that was posted. And what I will try to do -- I want to  
17 be sure -- I know it's very difficult on these conference calls where,  
18 you know, a lot of people are trying to speak at the same time and  
19 if you're quiet like me sometimes you don't get heard. So what I'll  
20 try to do is, you know, if a number of people want to speak, I'll ask  
21 -- I'll take a minute and try to get a list of names so that I can be  
22 sure that everyone gets the opportunity to speak that wants to  
23 speak on an issue.

24 So at this point are there any questions before we open the floor  
25 for a motion to get started on discussing our recommendation --  
26 any questions or overall comments?

27 **MS. HUGHES:** This is Catherine Hughes. I have a question of  
28 logistics. At what point in this conversation are we going to  
29 actually be voting for option one or option two?

30 **DR. WARD:** Well, when Paul and I talked about it, it was our  
31 thought that we would vote on option -- we would have discussion  
32 on option one and then vote on option one, because essentially if  
33 we vote in favor of option one, then option two is moot because  
34 we're not going to be voting on -- we're not going to be talking  
35 about a listing of specific sites.

**MS. HUGHES:** Okay, so if we're talking about option one, I wanted to draw everyone's attention to a *New Science* news article that came out at February 25th, 2012 which refers to the proceedings of the National Academy of Sciences that says bad stress is tied to inflammation, and that negative interactions may have biological effects. And it referred to two proteins that cause inflammation, that inflammatory triggers have been linked to increased risk of heart disease, high blood pressure, cancer -- which we're talking about today -- and depression. And the new results add to a growing body of research that links social stress to biological risk. So if -- 'cause I realized, when I was going through the testimony, we had not talked much about the mental impact on physical health. If one of our mental health experts could weigh in it would be much appreciated.

**DR. WARD:** Okay. But let's -- I mean it -- you know, maybe it's time to get a motion on the table regarding option one so then we can -- we can start the substantive discussion on that option? Anybody like to make a motion on option one?

**MS. SIDEL:** Well, actually I have a question. This is Susan Sidel.

**DR. WARD:** Okay.

**MS. SIDEL:** You know, it's kind of hard to start talking about option one until I have an idea of what's going to be included on option two. Do you know what I mean? Like if -- if certain cancers that we -- that aren't there, if they're added, if there's a discussion about them and that if they're added it may change -- it could possibly change how people looked over at option one. I'm just throwing that out there.

**DR. WARD:** Yeah, I think -- I mean does anyone else have a similar concern?

(No response)

**DR. WARD:** I guess what -- you know, what we have to try to do, since we have kind of a limited time for the meeting and we really have only today to get this done, is to -- you know, to proceed as efficiently as possible. Now I guess -- and Paul, you could help me with this because I'm not really that used to running committees

1 with Robert's Rules of Order. I mean I guess if we are in the course  
2 of discussing option one, a number of people feel that they can't  
3 make a decision on option one before they have an opportunity to  
4 discuss option two and see what the final list of cancers would be,  
5 then we -- I guess we could -- you know, we can entertain a motion  
6 that we not vote on option one before we --

7 **DR. MIDDENDORF:** Yes, you can table the motion.

8 **DR. WARD:** We can table the motion.

9 **MS. HUGHES:** Catherine Hughes here again. Can we have  
10 clarification why brain cancer, pancreatic cancer and breast  
11 cancer's not, you know, being included?

12 **DR. WARD:** Well, I think at the end of the last meeting we -- the  
13 Committee recommended that we derive a list of cancers that  
14 should be included by reviewing three sources of information. One  
15 was the IARC list of cancer sites associated with cancer in humans  
16 for those sites -- for those exposures that were present at the  
17 World Trade Center, and that -- in our table, that is column one --  
18 in our table four, that's column one.

19 And then the second -- second source was to review the areas of  
20 the body where there had been evidence of World Trade Center-  
21 related conditions that -- where chronic inflammation was part of  
22 the etiology or the cause for the -- for the biological process.  
23 And then the third was to look at the first epidemiologic study that  
24 was published, that's the firefighters, and look at sites that had any  
25 positive (indiscernible) at all in that study.

26 So we compiled the list from those three sources as accurately as --  
27 I mean I did it and I assume other Committee members reviewed it.  
28 And then if it was -- if we got a positive signal from any of the three  
29 sources, then we included it in the list and we also discussed, you  
30 know, what -- we also in the cover letter we discussed what the  
31 level of -- what types of evidence were there and what the level of  
32 evidence was. So if it's not there, it means that -- so if brain and  
33 pancreas are not -- and breast are not there it's because we didn't  
34 pick them up from any of the three sources that we agreed on a  
35 priori.

1 Now that doesn't say that we can't now make a motion to include  
2 one of those. What we were trying to do with this draft is simply  
3 to follow the guidance that the Committee had with respect to how  
4 to generate the list.

5 **MS. MEJIA:** This is Guille.

6 **DR. WARD:** Hi, Guille.

7 **MS. MEJIA:** Sorry. Listen, I would like to make a motion that we  
8 include all cancers, make a recommendation to the Administrator  
9 that all cancers be included. And the rationale for including all  
10 cancers that we use the option two rationale to justify our option  
11 of including all cancers. So that's my motion.

12 **DR. MIDDENDORF:** I need specific wording to be able to put it up.

13 **MS. MEJIA:** Okay. That the STAC Committee -- the motion is is  
14 that we recommend to the Administrator that all cancers are  
15 covered, and that the rationale for covering all these cancers is the  
16 basis for option two. You know, we used that information to justify  
17 the coverage.

18 Sorry, I'm not very good at forming these motions.

19 **DR. WARD:** Yeah, we could say that we incorporate some of the --  
20 we incorporate some of the rationales from option two to develop  
21 the rationale for option one. Would that capture what you're  
22 recommending?

23 **MS. MEJIA:** Yes, Liz. Thank you very much.

24 **MS. DABAS:** Hi, Liz, it's Valerie. I second Guille's motion.

25 **DR. WARD:** Great. So now the floor is open for discussion and, like  
26 I say, if it works out -- if it works out well that we're all speaking  
27 and everything's working out smoothly, I'll just -- we'll go like that.  
28 But if we need to start making a list, then we'll go that way. So the  
29 floor is open for discussion.

30 **MS. MEJIA:** Well, if I could start -- this is Guille again --

31 **DR. WARD:** Okay.

32 **MS. MEJIA:** -- I would just like to just state that, you know, we  
33 have in these meetings acknowledged the magnitude of the  
34 exposures that have been experienced by the responders and area  
35 workers and the survivors to this toxic mixture. And you know, the

1 lack of information -- as Micki has stated earlier, the lack of  
2 information in the literature is -- is really not enough to say that  
3 certain cancers should be excluded. And there are -- there are  
4 procedures in place to deal with whether this -- whether an  
5 individual's cancer will be covered by the treatment program. So  
6 you know, we shouldn't be worried about that, so -- I'll just leave it  
7 at that.

8 **DR. WARD:** Thank you. Anyone else?

9 **MS. FLYNN:** Yes, Liz, this is Kimberly and, first of all, you know, I  
10 want to thank you for taking the lead on this document. It's a  
11 remarkable document and it represents an extraordinary effort,  
12 primarily by yourself but also by the other experts.  
13 Nonetheless, I want to speak in favor of option one, in favor of  
14 Guille's motion to incorporate option two, and I think that the  
15 additional rationale that we can use for every cancer that is not  
16 currently listed in option two is quite simply the precautionary  
17 principle, which is sound science and recognizes that as our  
18 knowledge evolves it's going to lead us in a direction of  
19 understanding all the ways that aggregate exposures, cumulative  
20 exposures, synergistic exposures raise the risk of developing  
21 cancers. As scientific knowledge grows, so inevitably does the list  
22 of carcinogens. And almost without exception we will continue to  
23 see a steady lowering of the threshold at which exposures to  
24 carcinogens are known to have the potential to cause cancer.  
25 I just, you know -- I mean you've heard a number of people giving  
26 public comment today testifying in detailed ways about their  
27 exposure scenarios. You know, we heard about a restaurant where  
28 food was being served to returning members of the community and  
29 responders. You know, we will never know -- we will never have  
30 the kind of narrative that we would need to come to some kind of  
31 detailed judgment about all of the substances to which people  
32 were potentially exposed and all of the levels to which they're  
33 exposed. So you know, if as a child, unbeknownst to my parents  
34 who had to wait more than a year for an EPA cleanup, I was  
35 crawling on a carpet that was a reservoir for WTC lead, silica,

1 fibrous glass, there was also highly alkaline concrete dust, carpet  
2 fibers, along with some of the dust may have been coated with  
3 something like TCDD that's a carcinogen and a potentiator for  
4 other carcinogens. I may also have breathed PAHs in  
5 (indiscernible) fumes for weeks at my day care on Church Street.  
6 Exposures to PCP-172 which causes DNA hypermethyla--  
7 hypomethylation, even at low levels, might have come in my  
8 apartment windows in the first weeks following 9/11 and left an  
9 invisible film on the beanbag chair.

10 I just -- I think that, you know, the question of what would my post-  
11 9/11 cancer risk be is not something that we can nail down. And I  
12 do not think we should resolve uncertainties in favor of no effect.  
13 That's clearly what happened with respect to the government's  
14 judgments, and the result of that was that protections were not  
15 put in place and many, many people were unconscionably and  
16 unnecessarily exposed and are now sick. So I would say that, you  
17 know -- I mean actually I'm wondering if option one shouldn't be  
18 framed a little differently. I'm wondering if the truer path here  
19 wouldn't be to presume that all cancers are linked unless there is  
20 some definitive evidence demonstrating that a given cancer should  
21 not be linked.

22 **DR. ROM:** This is Bill Rom. Could I speak up?

23 **DR. WARD:** Yes, please. Thank you.

24 **DR. ROM:** So looking at all cancer, about five percent of all cancer  
25 is related to occupational exposures. That's probably occupational  
26 and environmental exposures, and I think we should try everything  
27 that we can to try to get to that five percent. But thinking of the  
28 other 95 percent, there's a lack of scientific evidence for those.  
29 We're supposed to be a scientific advisory committee, as well as  
30 technical, so I think we should really try to focus on those five  
31 percent and get some agreement on that. If we say all cancer is  
32 caused, then we should say acute myocardial infarctions, stroke,  
33 dementia, Alzheimer's and every other disease potentially should  
34 be causal. So I think we're overreaching, and I think we should  
35 really try to focus on those that IARC has demonstrated data and

1 we have exposure data to match IARC, and try to make this  
2 scientifically rational so that we engender the respect that we  
3 need.

4 So I would vote -- I would recommend voting against the motion.

5 **MS. SIDEL:** I see that they don't -- is it okay to speak?

6 **DR. WARD:** Yes, thank you.

7 **MS. SIDEL:** You know, this is a really -- this is just such a tough  
8 issue --

9 **DR. HARRISON:** Susan, this is Bob Harrison. Would you talk up a  
10 little bit? I'm having trouble hearing you.

11 **MS. SIDEL:** Sure -- sure, sorry. Is this better?

12 **DR. HARRISON:** Yeah, that's a little better.

13 **MS. SIDEL:** Okay. I was just saying that this has just been tough  
14 because I feel -- I feel option one and option two, but the problem  
15 that I have with option two is that so much of the information is  
16 dependent on things like occupational studies or exposure data.  
17 And you know, occupational studies don't discuss women. Most of  
18 them are all about men so there's like a gender bias in there. And  
19 then a lot of the other problem I have is that the exposure data is  
20 so faulty that the chemicals that were there, that we could say this  
21 chemical causes X, we don't have that necessarily. We also don't  
22 know what the synergistic effect is of everything all together. So  
23 it's so hard to just choose option two and say -- because I just -- I  
24 feel as though there's so much potential for so many other kinds of  
25 cancers that we just don't have -- we just don't have access to the  
26 data that we need to support -- to support it. You know, for  
27 example, like breast cancer. You know, maybe the chemicals down  
28 there could cause breast cancer, but we didn't find that on the  
29 IARC chart. But does that not mean that combinations of the  
30 chemicals there could have caused it or just the whole -- you know.  
31 Then the other issue also is that what happens when your body is  
32 already so compromised, you know, by -- by the toxins? And even  
33 just following the other paths of inflammation and the diseases  
34 that have already been covered under the health -- the World  
35 Trade Center health bill, not everything is covered because not



1 everything has been explored. I mean there has never been the  
2 money or the time available to explore all the problems that  
3 people have. And you know, people get diagnosed, you know,  
4 outside of the program with things that should be included in the  
5 program, but it's just been impossible to do that. I mean the drug  
6 is new but we've been -- you know, we started under the Bush  
7 administration who were fighting tooth and nail for all health  
8 consequences, which is a lot of the reason why we don't have the  
9 exposure data that we need. So I don't know if that's scientific, but  
10 the science is that -- that it should be there, but it's not there and  
11 it's difficult to exclude something when you know that it's data that  
12 should be there although it isn't because it just happens to be the  
13 way things are at this point. Thank you.

14 **DR. WARD:** Thank you. Next speaker, please?

15 **MS. FLYNN:** This is Kimberly. I just want to speak up again in  
16 response to the idea that we should solely rely on the occupational  
17 literature. The occupational literature is extremely limited.  
18 Studies often look at -- chemical by chemical or in clusters of  
19 chemicals instead of taking account of the full breadth  
20 combinations and concentrations of chemicals to which residents,  
21 responders and survivors were exposed on and after 9/11.  
22 Occupational studies, as has already been pointed out, the  
23 occupational literature for the most part has not included women.  
24 It was developed at a time when women had not yet entered those  
25 types of jobs. Often occupational studies utilized OSHA standards,  
26 which occupational safety and health experts will tell you have a  
27 political component and are not as protective as they should be.  
28 And occupational exposures do not take into account sensitive  
29 populations or issues of genetic polymorphism.  
30 I guess I -- after I talked about the limits of occupational studies,  
31 there actually is a 2010 study called 'Occupation and Cancer' in  
32 Britain that talks about shift work as an important risk in  
33 developing female breast cancer. So I don't know whether or not  
34 that made it into the IARC monograph, but we might consider it.  
35 At any rate, I think that using occupational literature, as I have said

1 in the past, as the sole basis or as even the main foundation of our  
2 decision means that we will be incorporating many of its flaws and  
3 limitations.

4 **DR. HARRISON:** Liz, this is Bob Harrison. May I speak?

5 **DR. WARD:** Yes, please.

6 **DR. HARRISON:** Okay. It's really a question, in consideration of  
7 the motion to approve all cancers, whether our advisory committee  
8 should take into consideration any statutory language or guidance  
9 from the Zadroga Act itself? In other words, what -- what criteria  
10 or scientific evaluation criteria should we be applying, if any, to  
11 consider these two options? Is there any standard by which we  
12 should consider this? Am I -- am I clear in my question?

13 **DR. WARD:** Yes, and I'll defer to Paul for the answer. I think we've  
14 talked about this before and the answer is really that the  
15 Committee is really being requested to develop the criteria as well  
16 as apply it. But Paul, would you like to respond?

17 **DR. MIDDENDORF:** Yeah, and if you're looking at the Zadroga Act  
18 for guidance in terms of how to make the decision, it gives very  
19 little. It basically says that the Administrator will need to review  
20 the scientific evidence to make his decision. So the Administrator  
21 has come to the science -- to the STAC and essentially has said 'I  
22 need you to help provide that scientific evidence so that I can  
23 move forward to essentially add covered conditions to the list.'

24 **DR. HARRISON:** Thank you, Paul. I would like to then speak in  
25 opposition to the motion to accept option one to cover all cancers,  
26 largely based on the concept that cancer is multifactorial. I think  
27 as suggested earlier by Dr. Rom, there are cancers for which there  
28 is substantial or other, more limited, scientific evidence for a  
29 relationship between occupational and environmental exposures  
30 than that cancer end point, and that departing from that principle  
31 by covering all cancers I think would be -- in my view, I think  
32 inconsistent or contrary to the -- you know, the best scientific  
33 principles, and I think would establish a -- represent -- that would -  
34 - that would really not -- not be consistent with other authoritative  
35 findings for a decision. I think, as Dr. Rom pointed out, would be a

1 -- sort of a leap, a departure. So I would -- I would argue against  
2 option one.

3 **MS. DABAS:** Hi, this is Valerie. I just had a question for the two  
4 people that are against option one. Could they name two cancers  
5 with absolute certainty that they would believe that have no  
6 environmental cause for those cancers?

7 **DR. HARRISON:** I would not. In fact, I think that's a -- this is --  
8 that's a very good question. This is Bob Harrison again. I wouldn't  
9 be able to name cancers for which, with absolute certainty, there's  
10 no association or possible linkage between an occupational or  
11 environmental cause and that cancer. That being said, I think there  
12 are certain cancers for which, at this point in time, there's  
13 insufficient evidence to conclude that there is such a link. And I  
14 think that there's a difference between those two statements.

15 **MS. DABAS:** Well, my question in fact --

16 **DR. HARRISON:** For example, I would -- you know, if we get to the  
17 -- you know, if -- if we move on from option one, depending on the  
18 vote, to where we talk about specific cancers, I think we would  
19 have a discussion and debate about prostate cancer, for example,  
20 where I personally think that, although the evidence is suggestive,  
21 it doesn't yet reach the level of significance that I believe that we  
22 could link occupational/environmental exposures in many cases to  
23 prostate cancer. That's just an example -- which is not to say that  
24 there's not a linkage, but unless we were to have additional  
25 scientific evidence, perhaps from studies that are going to be  
26 forthcoming, I would suggest that there's probably -- the evidence  
27 for prostate cancer does not equal the evidence for lymphopoietic  
28 cancers or for aerodigestive cancers.

29 **DR. ROM:** This is Bill Rom. That's a complicated question that  
30 would take a whole course to answer, but there's limited evidence  
31 for prostate, for example. Breast has been a struggle for years to  
32 try to find some linkages and we're working really hard on that.  
33 Uterine cancer is another one that's a challenge. There's some rare  
34 uterine cancers like clear cell carcinoma are related to drugs and  
35 previous generations. Small intestine and skin -- we have one of

1 the more common cancers and, you know, beyond UV light and --  
2 Percivall Pott's scrotal observations we have very limited evidence,  
3 so you have to go by site by site and histology by histology and  
4 review all that. And we spend our lives trying to find the  
5 associations and some of these are very difficult. Brain cancer, for  
6 example, has been a challenge and we've been trying for years to  
7 try to find environmental and occupational exposures for brain  
8 cancer. And then there's a whole host of genetically-linked  
9 cancers, and then some that are linked to viruses, and then diet is a  
10 huge topic related to cancer. So it's a complicated question that  
11 would take a long time to fully answer.

12 **MS. DABAS:** Thanks, Dr. Rom. I think Dr. Harrison answered it in  
13 that there's nothing we can say for sure with 100 percent certainty  
14 has no environmental links with cancer. So there's not one site  
15 that we can say with 100 percent certainty that there's no way that  
16 this person could have gotten it based on their environmental  
17 exposures.

18 **DR. TALASKA:** Hi, this is Glenn Talaska. I'd like to speak against  
19 the motion. I do believe that we need to provide the Administrator  
20 with scientific arguments in favor of adding diseases, as he  
21 requested. And I don't believe that the data are there that indicate  
22 that all cancers should be covered by -- with our recommendation.

23 **DR. DEMENT:** Hi, this is John Dement. Could I speak as well?

24 **DR. WARD:** Yes.

25 **DR. DEMENT:** I'd like to also voice my opposition to the all cancers  
26 issue. I think we've been charged with providing a rational  
27 scientific basis for the selection of cancers to be included, if at all.  
28 And I think we've approached it from a perspective of the best  
29 evidence possible. I really think if we go the all cancer route --  
30 although I'm very sensitive to the issue of rare cancers and there  
31 not being sufficient data because of their rarity -- I think we have  
32 the obligation to provide a sound scientific basis to the  
33 Administrator, one that can be incorporated without a lot of  
34 challenge.

35 I think we also need to be -- acknowledge when we do this that

1 there's a lot of uncertainty and there's a lot of area where, in the  
2 future, we should be continuously vigilant about sites that pop up,  
3 based on either studies of World Trade Center populations or  
4 studies elsewhere in the scientific literature.

5 **MR. CASSIDY:** Hello, this is Steve Cassidy. Hello?

6 **DR. WARD:** Yes, Steve, we hear you. Thanks.

7 **MR. CASSIDY:** I'd like to speak on the topic. Reluctantly I have to  
8 say that I don't agree with all cancers either. I'd like to be there. I  
9 recognize that those who suffered the most severe exposures are  
10 more likely to come down with cancers that are not yet defined in  
11 Dr. Prezant's study. I want to remind everybody, and I think they  
12 all know it, that the study goes back to really just 2008. And when  
13 you look at that study you have to recognize that there were a lot  
14 of people probably had cancer in 2007, 2008, didn't know it at the  
15 time. I know for a fact that there are a lot of firefighters have  
16 come down with serious cancers -- some are dying, some have died  
17 -- since Dr. Prezant's study that were not included in his study. So  
18 you know, I would love for it to be all cancers, but I don't think that  
19 we can do it based on what we've been tasked.

20 I do think that when we get to the second round of this, if that's  
21 where we end up, and we have to look at biologic plausibility  
22 versus strongest evidence, I think biologic plausibility is the key.  
23 And I think, you know, there are cancers that need to be included  
24 when we get there -- brain cancer and pancreatic cancer, for sure.  
25 And maybe we can move on to that, but reluctantly I have to say  
26 no.

27 **MS. FLYNN:** This is Kimberly, and I'd like to just raise I guess a  
28 point of clarification, refer to the testimony of Dr. Melius. Yes,  
29 cancer -- we accept that cancer is a multifactorial disease. But  
30 there are many checks and balances. Once the STAC makes the  
31 recommendation, the implementation of that recommendation is  
32 going to mean that the physician of each patient has to attribute  
33 the cancer to World Trade Center -- well, first of all there's the  
34 diagnosis of the cancer, and then there is the attribution of the  
35 cancer. And that physician will of course be taking into account the

1 whole history of exposure to World Trade Center in detail. So I --  
2 you know, it's not the case that we should be kind of making that  
3 decision out in advance by saying 'Well, you know, certain cancers  
4 there's some evidence for but it's just not quite enough for us to  
5 add those cancers to the list.' And there are steps of scientific and  
6 medical evaluation down the line before anyone is accepted for  
7 treatment or anyone's treatment is covered.

8 **DR. WARD:** This is Liz. I did want to make a comment about that  
9 and I'm hoping that some of the Committee members who have  
10 occupational medicine and clinical experience will comment on it  
11 as well, 'cause from my point of view as an epidemiologist for  
12 those cancers that don't have, you know, a substantial body of  
13 evidence supporting their potential association I would be hard-  
14 pressed -- I mean I'm not sure how a physician would make that  
15 determination about those cancers. I mean it's not in our  
16 immediate, you know -- I mean we're not -- that's not exactly what  
17 we're talking about here but I think it's relevant because it -- you  
18 know, if there's no -- if there's very little evidence associating that  
19 cancer potentially with the exposures, then there's very little  
20 rationale or criteria to determine that one person's -- one person's  
21 cancer is World Trade Center-related and the other's isn't.  
22 So would any of the occupational physicians or practicing  
23 physicians like to comment on that?

24 (No response)

25 **DR. WARD:** All right. Well, with no further comments on that,  
26 we'll open the floor for the next speaker.

27 (No response)

28 **DR. WARD:** Is everyone still there?

29 **UNIDENTIFIED:** Yes, we're all still here.

30 **MS. SIDEL:** Well, I actually have a question. Maybe Paul can help.

31 **DR. WARD:** Sure, go ahead.

32 **MS. SIDEL:** Okay. Is there a safeguard with -- in place, going  
33 forward so if Dr. Howard -- when he was speaking, we meet at his  
34 pleasure and we answer this question for him, and so until he has  
35 another big question, we're sort of, you know, on call. Well, how

1 would we raise these issues if -- say new evidence becomes  
 2 available if everything is -- I'm just remembering that there's only  
 3 four years for this, or five years, for this whole Committee, how  
 4 could these -- how could issues for things that we don't have the  
 5 kind of evidence that we want to have -- when that evidence  
 6 becomes available, or is there some way that we can do research to  
 7 get the evidence?

8 **DR. MIDDENDORF:** Well, what would happen is if someone were to  
 9 petition the Administrator again to add cancer or a specific type of  
 10 cancer or another health condition, he then could come back to the  
 11 Committee and ask for the Committee's advice on it.

12 **MS. SIDEL:** I see. Okay. Thank you.

13 **DR. WARD:** What I'd like to do then is make sure -- see if there's  
 14 anyone else who'd like to speak either in favor of the motion or  
 15 against the motion. And if not, call for a vote.

16 **DR. MIDDENDORF:** Okay. I'd like to make sure that the motion is  
 17 stated as the Committee wants it.

18 **MS. FLYNN:** So right now it's possible -- I'm sorry, this is Kimberly.  
 19 Is it possible for me to -- and I don't know my Robert's Rules all  
 20 that well, but to make a friendly amendment, citing a  
 21 precautionary principle as a scientific basis to include cancers that  
 22 are not listed under option two? The point being, you know, that --

23 **DR. MIDDENDORF:** What I would need is wording here. How  
 24 would --

25 **MS. FLYNN:** You would need wording.

26 **DR. MIDDENDORF:** Well, how would you word your proposed  
 27 amendment?

28 **MS. FLYNN:** What is the original -- could I ask you please to repeat  
 29 the original --

30 **DR. MIDDENDORF:** The motion on the table is 'The Committee  
 31 recommends that all cancers be covered.'

32 **MS. MEJIA:** Hi, this is Guille. Just want to remind everyone that as  
 33 the maker of the motion I think I'm the one that has to accept the  
 34 amendment --

35 **MS. FLYNN:** Yes, you are.

1 **MS. MEJIA:** -- to the motion.  
2 **MS. FLYNN:** Yes.  
3 **DR. MIDDENDORF:** So what would the amendment be?  
4 **MS. FLYNN:** I moved that any cancers not covered under option  
5 two would be covered under option one, under the precautionary  
6 principle.  
7 **MS. DABAS:** Hi, this is Valerie. Kimberly, is it possible that we get  
8 a clean vote on this, just, you know, the first one, which was what  
9 Guille said?  
10 **MS. FLYNN:** Yes, I'll withdraw -- I'll withdraw the amendment.  
11 **MS. MEJIA:** Thank you.  
12 **DR. WARD:** Okay, so it's -- the motion has been called for a vote.  
13 Paul, do you want to do the --  
14 **DR. MIDDENDORF:** Sure, I'll do an alphabetical voting.  
15 Tom Aldrich?  
16 **DR. ALDRICH:** I vote against this motion.  
17 **DR. MIDDENDORF:** Okay, vote no. Steve Cassidy?  
18 (No response)  
19 **DR. MIDDENDORF:** Steve? You're not coming through if you're  
20 speaking.  
21 (No response)  
22 **DR. MIDDENDORF:** Steve?  
23 (No response)  
24 **DR. MIDDENDORF:** I can't hear Steve so I'm going to go on to  
25 Valerie Dabas?  
26 **MS. DABAS:** I vote for.  
27 **DR. MIDDENDORF:** Vote yes. John Dement?  
28 **DR. DEMENT:** No.  
29 **DR. MIDDENDORF:** Kimberly Flynn?  
30 **MS. FLYNN:** Yes.  
31 **DR. MIDDENDORF:** Bob Harrison?  
32 **DR. HARRISON:** No.  
33 **DR. MIDDENDORF:** Catherine Hughes?  
34 (No response)  
35 **DR. MIDDENDORF:** Catherine?



1 **MS. HUGHES:** I'm back, please.  
2 **DR. MIDDENDORF:** You're -- yes or no?  
3 **MS. HUGHES:** If we vote this down, can we add cancers under  
4 option two?  
5 **DR. MIDDENDORF:** Yeah, I mean there's nothing that says that --  
6 **MS. HUGHES:** Well we can cover that today, is there --  
7 **DR. MIDDENDORF:** Yeah, that can still be done.  
8 **MS. HUGHES:** It still can be done, because it seems that brain,  
9 thyroid and breast are --  
10 **DR. MIDDENDORF:** We're past discussion at this point, Catherine.  
11 We need to move on. Vote yes or no.  
12 **MS. HUGHES:** No.  
13 **DR. MIDDENDORF:** I'm sorry?  
14 **MS. HUGHES:** No.  
15 **DR. MIDDENDORF:** Thank you. Steve Markowitz is not here.  
16 Guille?  
17 **MS. MEJIA:** No.  
18 **DR. MIDDENDORF:** Carol is not here. Julia?  
19 **DR. QUINT:** No.  
20 **DR. MIDDENDORF:** Bill Rom?  
21 **DR. ROM:** No.  
22 **DR. MIDDENDORF:** Susan Sidel?  
23 **MS. SIDEL:** No.  
24 **DR. MIDDENDORF:** Glenn Talaska?  
25 **DR. TALASKA:** No.  
26 **DR. MIDDENDORF:** Leo Trasande?  
27 (No response)  
28 **DR. MIDDENDORF:** Leo?  
29 (No response)  
30 **DR. MIDDENDORF:** Virginia Weaver?  
31 **DR. WEAVER:** Yeah, I just had some audio difficulties. I was calling  
32 in on the line where I was not able to speak.  
33 **DR. MIDDENDORF:** Okay.  
34 **DR. WEAVER:** So we're now voting for or against option one. Is  
35 that correct?

1 **DR. MIDDENDORF:** That is correct, and motion one is 'The  
2 Committee recommends that all cancers be covered.'

3 **DR. WEAVER:** Okay. So just so -- for the record, I've been on the  
4 call the entire time --

5 **DR. MIDDENDORF:** Okay.

6 **DR. WEAVER:** -- and have not heard the vote so far, but I would  
7 vote against that motion.

8 **DR. MIDDENDORF:** Okay. I'm going to go back to Steve Cassidy.  
9 Steve, are you on?

10 (No response)

11 **DR. MIDDENDORF:** I can't hear anything from Steve.  
12 And Leo Trasande?

13 (No response)

14 **DR. MIDDENDORF:** And make sure you're not on mute.

15 (No response)

16 **DR. MIDDENDORF:** Okay. Liz Ward?

17 **DR. WARD:** I would vote no.

18 **DR. MIDDENDORF:** Okay. Of those voting I have ten nos and one,  
19 two, three -- three yes.

20 So it's back to you, Liz.

21 **DR. WARD:** All right. So for the next option -- we need a motion --  
22 there's a couple of motions that could be made. One would be to  
23 discuss each organ site or grouping of sites individually. The other  
24 could be to accept all of the sites that are currently listed, and I  
25 guess in either case we can also make separate motions to add  
26 addi-- for additional sites. But I guess probably the most efficient  
27 way to do it would be to talk about -- for someone to make a  
28 motion -- well, I guess -- why doesn't someone make a motion as to  
29 how to proceed on option two?

30 **MR. FLANIGAN:** Can I speak?

31 **DR. WARD:** Yeah.

32 **MR. FLANIGAN:** Hi, my name is Shawn Flanigan. Something that  
33 wasn't mentioned, the sarcomas or bone cancers -- okay? And I  
34 know that there was a lot of speaker earlier on scientific data --

35 **DR. WARD:** Excuse me, Mr. Flanigan, are you a member of the

1 Scientific and Technical Advisory Committee?  
2 **MR. FLANIGAN:** No.  
3 **DR. MIDDENDORF:** Okay, this part of the meeting is not open to  
4 you, sir.  
5 **MR. FLANIGAN:** All right.  
6 **DR. MIDDENDORF:** Please go to mute.  
7 **MR. FLANIGAN:** Thank you.  
8 **DR. WARD:** Okay. Is there anyone on the Committee who would  
9 like to make a motion?  
10 **MS. DABAS:** Hi, it's Valerie. I make a motion for the second  
11 option, but to include breast, pancreatic and brain cancer.  
12 **DR. TALASKA:** Glenn Talaska. Are you going to entertain multiple  
13 options or just one at a time?  
14 **DR. WARD:** Paul, what's your recommendation on that?  
15 **DR. MIDDENDORF:** Why don't you -- I think what might be helpful  
16 is if the Committee discussed how it really wants to proceed,  
17 whether or not it wants to go down the road of looking at  
18 everything all combined or if it would rather try to split this up.  
19 **DR. TALASKA:** Could we do it in this fashion? Could we -- if there  
20 are -- anyone has any objections to any of the specific cancers that  
21 are cited in the -- in option two thus far, why don't we bring them  
22 up and then we could have a section where we add cancers?  
23 **MS. DABAS:** Hi, this is Valerie again. I think there is a motion on  
24 the floor currently.  
25 **UNIDENTIFIED:** I agree with you, Val.  
26 **DR. WARD:** Okay, so the motion as I understand it that's on the  
27 floor is to include all of the -- all of the cancers and organ groups  
28 currently listed in option two, and in addition to include breast  
29 cancer, pancreatic cancer and brain cancer. Is there a second for  
30 that motion?  
31 **MS. FLYNN:** Kimberly, I second.  
32 **DR. WARD:** Okay. So I think we'll have discussion on that motion  
33 and then a vote. If it does not carry, then we can see if we want to  
34 adopt Glenn's suggestion. Let's have discussion on that -- on that  
35 motion.

1 **DR. ALDRICH:** This is Tom Aldrich. Can I say a word?

2 **DR. WARD:** Sure.

3 **DR. ALDRICH:** I think the discussion we had on option one pretty  
4 much informs the result of this motion. I think the big part of the  
5 reason option one did not carry was that a number of people felt  
6 that there was -- there were some cancers, some of which were  
7 included in option two, that -- for which there is insufficient  
8 evidence. It seems almost a foregone conclusion what the results  
9 of this vote is and I think we should just get right to the vote.

10 **DR. WARD:** Is anyone opposed to that?

11 **UNIDENTIFIED:** I think it's good.

12 **DR. WARD:** Okay, so let's proceed with the vote, Paul.

13 **DR. MIDDENDORF:** Okay. So what I've done is to copy all of the  
14 bullets from motion two that are from the draft report. And then  
15 also at the bottom here is 'and include breast, brain and pancreatic  
16 cancer.' The question for the Committee is how would we -- is that  
17 sufficiently clear to what the Committee is voting on, because you  
18 have a lot of ICD codes and things like that listed for the other  
19 types of cancer. Does that information need to be included here?  
20 Do you know specifically what you're voting on?

21 **DR. WARD:** My thought would be, Paul, that probably the  
22 Committee has a common understanding of what we mean and  
23 that if -- if we were to adopt this motion that we would then have  
24 time during the remainder of the meeting to add that additional  
25 information to it -- the text and the draft.

26 **DR. MIDDENDORF:** Okay.

27 **DR. HARRISON:** Liz, this is Bob Harrison.

28 **DR. WARD:** Yes.

29 **DR. HARRISON:** Those are three separate cancers, as I understand  
30 it, that we're being asked to vote on as a group. Yet some  
31 Committee members, including myself, may vote differently for  
32 each one of those three sites.

33 **DR. WARD:** Well, I think that's okay because I think this particular  
34 motion is -- well, I guess -- in the end of the day this particular  
35 motion is basically saying we include all the sites that were listed

1 under option two plus these three sites. And if this mot-- you  
2 know, so if this motion carries, it's true, if that's your only -- I mean  
3 I guess the quest...

4 **DR. HARRISON:** Okay, I -- no, I understand the motion on the  
5 table.

6 **DR. WARD:** If it doesn't carry then we'd have the option of looking  
7 at each site -- each site or group that was listed, plus each of these  
8 three sites individually.

9 **DR. HARRISON:** Thank you for clarifying that.

10 **DR. WARD:** So with that, I guess we're ready for the vote, Paul.

11 **DR. MIDDENDORF:** Okay. For motion two, again we'll go  
12 alphabetically with the Chair voting last. Tom Aldrich?

13 **DR. ALDRICH:** No.

14 **DR. MIDDENDORF:** Steve Cassidy?

15 **MR. CASSIDY:** Yes.

16 **DR. MIDDENDORF:** Valerie Dabas?

17 **MS. DABAS:** Yes.

18 **DR. MIDDENDORF:** John Dement?

19 **DR. DEMENT:** No.

20 **DR. MIDDENDORF:** Kimberly Flynn?

21 **MS. FLYNN:** Yes.

22 **DR. MIDDENDORF:** Bob Harrison?

23 **DR. HARRISON:** No.

24 **DR. MIDDENDORF:** Catherine Hughes?

25 (No response)

26 **DR. MIDDENDORF:** Catherine, are you on?

27 **MS. HUGHES:** Yes, thank you.

28 **DR. MIDDENDORF:** Are you -- what is your vote?

29 **MS. HUGHES:** Yes.

30 **DR. MIDDENDORF:** Okay. Steve Markowitz is not here. Guille  
31 Mejia?

32 **MS. MEJIA:** Yes.

33 **DR. MIDDENDORF:** And you're voting yes. Okay. Carol North is  
34 not here. Julia Quint?

35 (No response)

1 **DR. MIDDENDORF:** Julia?  
2 **DR. QUINT:** No.  
3 **DR. MIDDENDORF:** No, okay. Bill Rom?  
4 **DR. ROM:** No.  
5 **DR. MIDDENDORF:** Susan Sidel?  
6 **MS. SIDEL:** Yes.  
7 **DR. MIDDENDORF:** Glenn Talaska?  
8 **DR. TALASKA:** No.  
9 **DR. MIDDENDORF:** Leo Trasande?  
10 (No response)  
11 **DR. MIDDENDORF:** Virginia Weaver?  
12 **DR. WEAVER:** No.  
13 **DR. MIDDENDORF:** Liz Ward?  
14 **DR. WARD:** No.  
15 **DR. MIDDENDORF:** Okay. I have -- of those voting, eight voted no,  
16 six voted yes, so the motion does not carry.  
17 **DR. WARD:** One procedural question 'cause Steve Cassidy was back  
18 on the phone for this vote. Steve, did you attempt to vote on the  
19 first motion? 'Cause I think we didn't hear you.  
20 **MR. CASSIDY:** I did vote on the first motion. I voted reluctantly  
21 no.  
22 **DR. WARD:** Okay.  
23 **MR. CASSIDY:** The first option you mean, right?  
24 **DR. WARD:** Yeah, yeah.  
25 **DR. MIDDENDORF:** I will go back -- initially I had you as not voting.  
26 I will put you down as a no then.  
27 **MR. CASSIDY:** I must have -- I gave a nice speech, you must have  
28 missed it. I must have been muted.  
29 **DR. MIDDENDORF:** No, it's just when we went to the roll call vote,  
30 you didn't come in on it, so...  
31 **DR. WARD:** Yeah, I'm hoping we're not having -- you know, missing  
32 people on votes because of technical difficulties, so I guess we'll --  
33 we will go back and check on those who were missing from the  
34 second voting -- voting round, just to make sure we didn't -- we  
35 didn't miss their vote because we couldn't hear them.

1 Okay. So then I think the next logical step might be to proceed the  
2 way Glenn suggested, just to have a -- you know, an initial  
3 discussion and ask for people to speak on those cancer sites that  
4 they're opposed to including on that original list, or cancer sites  
5 that they would like to see added. Why don't we do the ones that  
6 people are opposed to including from the original list first, just to  
7 keep everything organized -- so the floor is open.

8 **DR. ALDRICH:** This is Tom Aldrich. I oppose the inclusion of  
9 prostate cancer for the reasons that are discussed in -- I think it's  
10 the second paragraph about prostate cancer.

11 **DR. WARD:** Okay, thank you. Now Paul, I think I just might have  
12 made a procedural error. Do we need a formal motion to open the  
13 floor for a discussion on the --

14 **DR. MIDDENDORF:** I think we need a motion that people will be  
15 discussing; something very specific.

16 **UNIDENTIFIED:** Yeah, I think at some point we can just move that  
17 certain -- whether we agree, so -- or we could have -- Tom could  
18 make a motion, and if no one seconded it, then it would die, for  
19 example. And then if not, then we could have -- so if someone  
20 suggests that one cancer be removed, we could have a second on  
21 that motion to remove it, and then if not, then that motion to  
22 remove it would die and then we could go on to a discussion and  
23 vote on whether that specific cancer should be removed. We could  
24 go one by one if we wanted.

25 **DR. MIDDENDORF:** Yeah, another potential for the Committee to  
26 consider is whether or not it wants to go through the bullets that  
27 were in -- individual bullets and just do those. So at some point  
28 you will come up with something you don't want to include and you  
29 can make a motion to -- to pull them out.

30 **UNIDENTIFIED:** Bullets where? I'm sorry.

31 **DR. MIDDENDORF:** From the report, the draft report.

32 **UNIDENTIFIED:** Okay, but I was just looking for where we had it.

33 **DR. MIDDENDORF:** In option two.

34 **UNIDENTIFIED:** Okay, hold on.

35 **DR. WARD:** I mean one way to do that might be to find out -- like if

1 we go to the first bullet we might say 'Is anyone opposed to  
2 including -- including (indiscernible) neoplasms of the respiratory  
3 system' or wish to propose that specific cancers within that  
4 grouping be excluded. And then if not, we can just go -- we don't  
5 really need discussion. We can go for the vote.

6 **DR. ALDRICH:** That makes really good sense. We could group the  
7 vote.

8 **MS. DABAS:** Do we sort of know that there are going to be a  
9 couple of problems, and maybe we could just go to those?

10 **DR. WARD:** Well, I think that was what Glenn was proposing, and I  
11 guess either way is fine. It seems that we probably will want --  
12 since we're including these -- since we're considering these  
13 individually, I think we'll probably want a vote on the record  
14 anyway, so it might be just as efficient to go through them one by  
15 one, have the vote, if they're -- I mean find out if there's anyone  
16 who wants to speak against it or modify it and then let's go to the  
17 vote.

18 **DR. HARRISON:** Yeah, I think particular cancers -- I mean most of  
19 us are going to agree with most of the ones on the list, perhaps. At  
20 least that would be my surmise. To go over each one and to vote  
21 to include each one is not -- you know, our report includes them  
22 already. We just -- I think it would be more efficient if we just  
23 voted to remove particular ones.

24 **DR. MIDDENDORF:** This is (indiscernible). I think you need to  
25 move -- or make motions to include and/or exclude. It needs to be  
26 on the record in both directions.

27 **MS. HUGHES:** Catherine Hughes here. On prostate cancer I  
28 understand the Veterans Affairs for Agent Orange does include  
29 prostate cancer, and some of the chemicals that were in Agent  
30 Orange were down at the World Trade Center as well -- point of  
31 clarification.

32 **MR. CASSIDY:** Liz, Steve Cassidy.

33 **DR. WARD:** Yes, Steve.

34 **MR. CASSIDY:** My thought was -- I mean that was a very close  
35 vote, eight no, six yes. I mean maybe -- maybe there's a consensus



1 or maybe there's a theme emerging among the eight nos that -- to  
2 be fleshed out, which would make this an easier process to have a  
3 second vote. I don't know if there's --

4 **DR. WARD:** That's fine. I mean what we can do is I guess we can  
5 talk about -- we can make a motion to proceed that way, and then  
6 if we need the formality of a vote on each and every one, we can  
7 do that.

8 **DR. ROM:** Liz, this is Bill Rom. I would like to second Tom Aldrich's  
9 motion that the entire second list be accepted, with the exception  
10 of prostate cancer, and have a vote.

11 **DR. WARD:** Shall we -- so that's the formal motion, Paul, so we  
12 take a vote on -- shall we proceed on that motion?

13 **DR. MIDDENDORF:** This motion does not include breast, brain or  
14 pancreatic. Is that correct?

15 **DR. ROM:** That's correct.

16 **DR. MIDDENDORF:** Let me pull all this down and I will find...

17 **DR. WARD:** But it doesn't close the -- it doesn't close the option of  
18 discussing brain, breast --

19 **DR. MIDDENDORF:** No, it's just that they aren't included in this  
20 particular one.

21 **DR. WARD:** Right.

22 **DR. MIDDENDORF:** I'm looking for the bullet on prostate.

23 **DR. ALDRICH:** It's page six, starts on line 26, I think.

24 **DR. MIDDENDORF:** Okay, here it is, 'Committee recommends  
25 prostate' so it comes down to here. Is it -- Liz, do you want to look  
26 or -- who made the motion?

27 **DR. ALDRICH:** That was me, Tom.

28 **DR. MIDDENDORF:** Tom, do you want to check and make sure that  
29 I've highlighted the part you want me to remove?

30 **DR. ALDRICH:** Yes.

31 **DR. MIDDENDORF:** It is the correct section?

32 **DR. ALDRICH:** Yes, it is.

33 **DR. MIDDENDORF:** (Unintelligible)

34 **DR. ALDRICH:** I had another change that I'd like to recommend. Is  
35 this the time to do it or not?

1 **DR. MIDDENDORF:** Yeah, I think you can amend your own motion,  
2 yes.

3 **DR. ALDRICH:** Well, regarding the cancers of the eye -- let me find  
4 out where that is again -- oh, it's page seven, line 16, cancers of the  
5 eye and the orbit be listed for individuals engaged in welding. You  
6 know, World Trade Center exposure was notable for a tremendous  
7 volume of eye irritation, such that emergency treatment of --  
8 washing out the eyes was the most common emergency treatment  
9 that was provided acutely, and it was far more than welders. So I  
10 think it would be a reasonable extrapolation to say that, with the  
11 amount of foreign bodies present in the eyes of World Trade  
12 Center responders, and probably residents, it ought not to be  
13 limited to welders.

14 **DR. WARD:** So we could just drag the language -- end at 'World  
15 Trade Center-related condition' and strike the --

16 **DR. ALDRICH:** That's what I would recommend.

17 **MS. HUGHES:** Catherine, Catherine seconds it.

18 **MR. CASSIDY:** Did -- did -- was that a formal motion, that we --

19 **MS. HUGHES:** It's a formal motion.

20 **MR. CASSIDY:** -- that we take that -- no, he has to make that as a  
21 formal motion.

22 **DR. ALDRICH:** Yes, well, I would if I'm allowed to.

23 **MR. CASSIDY:** Okay. And would you add it to your other one is  
24 what I'm asking.

25 **DR. ALDRICH:** If I'm allowed to.

26 **MR. CASSIDY:** Okay. So both those changes.  
27 I second it, too.

28 **DR. MIDDENDORF:** The motion on the table is for this 'engaged in  
29 welding.'

30 **DR. ALDRICH:** You can get rid of everything after 'condition.'

31 **DR. WARD:** Right.

32 **DR. MIDDENDORF:** After 'condition', okay. Okay, you want the  
33 next sentence struck as well?

34 **DR. ALDRICH:** Yes.

35 **DR. MIDDENDORF:** So is that the way you want it to read, 'The

1 Committee recommends that cancer of the eye and orbit be listed  
2 as a WTC-related condition'?

3 **DR. ALDRICH:** Yes, but the next -- then there should be a carriage  
4 return.

5 **DR. MIDDENDORF:** Got it, okay.

6 **DR. WARD:** So if the Committee votes in favor of this motion, we  
7 may need to add a sentence there regarding the rationale, but we  
8 can go ahead and vote because -- I mean I think -- the rationale  
9 was stated, but I don't think it was captured, so we'll have to  
10 capture it.

11 **MS. HUGHES:** Liz, Catherine Hughes here. As a former -- I used to  
12 do construction way back when. Typically you're supposed to have  
13 shields around to protect where welding is, so even if you're not  
14 actually doing the welding you can also be exposed, and there was  
15 intense dust and smoke in the air for months.

16 **DR. WARD:** All right.

17 **DR. HARRISON:** So Liz, this is Bob. Just so I understand, the  
18 proposal on the table is to eliminate the connection to welding and  
19 list it just as cancer of the eye and orbit.

20 **DR. WARD:** Right, and the rationale would be that the eye was of -  
21 - you know, the irritation of the eye was a frequent event among  
22 people who were working at the site, so the rationale is that -- you  
23 know, that the direct contact with the materials was causing  
24 irritation. The original ration--

25 **UNIDENTIFIED:** Would somebody on the call be able to speak to  
26 the scientific or epidemiological evidence regarding cancer of the  
27 eye and orbit relative to irritants, as opposed to welding? I don't  
28 know this literature.

29 **DR. WARD:** Yeah, and the welding really came from the IARC  
30 determination, so the -- so in the IARC compilation of cancer  
31 science related to specific exposures, eye was specifically called  
32 out for welding and not for anything else. I mean -- but I think the  
33 rationale could be along the lines -- I think somewhere in here  
34 where we talked about lip cancer -- I -- yeah, I think the lip on pa--  
35 on my updated draft is bottom of page five, but we basically --

1 since lip, oral cavity and pharynx have not been specifically  
2 designated in any of the sources, but because it's connected to all  
3 the other -- you know, upper respiratory tract and the digestive  
4 tract -- the rationale was that the lip, oral cavity and pharynx have  
5 a high potential for direct exposure to toxic materials through  
6 hand-to-mouth contact. And we've already included skin cancer, so  
7 the eye is another, you know, surface on the body where you  
8 would expect that there would be direct contact with toxins.  
9 **DR. ALDRICH:** Where we know there was direct contact, because  
10 there is literature about numbers of people who required eye  
11 irrigation.  
12 **DR. WARD:** Right.  
13 **DR. HARRISON:** This is Bob. Just a follow-up question. Is there  
14 anything in the rationale -- and this would probably mean going  
15 back to the IARC document to understand why they listed welding,  
16 that's specific to welding fumes as opposed to other irritants that  
17 would have been present at -- or were present at Ground Zero?  
18 **DR. WARD:** Not to -- I mean I -- yeah, I did not look at that source  
19 document from IARC for that specific exposure.  
20 **DR. DEMENT:** Hi, Liz, this is John Dement. I think the issue with  
21 IARC is simply they were reviewing welding as an exposure  
22 generally, and looking at sites where cancers were increased. So in  
23 addition to eye, the document talks about lung and some other  
24 sites.  
25 **DR. HARRISON:** John, this is Bob. So there were no other -- so it  
26 was a epidemiological observation, not specifically linked to some  
27 exposure?  
28 **DR. DEMENT:** No, it's --  
29 **DR. HARRISON:** In the IARC review.  
30 **DR. DEMENT:** Yeah, yeah, you know, IARC reviews typically --  
31 exposures that they review some --  
32 **DR. MIDDENDORF:** Hang on for just a second. For the purposes of  
33 the transcript and the record, it would be helpful if people would  
34 identify themselves before just jumping in.  
35 **DR. HARRISON:** That was Bob Harrison making a comment and that

1 -- I think that was John Dement responding.

2 **DR. WARD:** I also think that I -- I mean I am in favor of keeping it in  
3 with the rationale, but I also think that eye and orbit is such a rare  
4 site, so we're going to -- I mean it will -- it would -- if we vote to  
5 include the rare cancers, I think it will probably -- would be  
6 included for that reason as well.

7 **DR. ALDRICH:** Well, I think that -- this is Tom Aldrich. I think  
8 there's more specific, admittedly indirect extrapolative evidence  
9 for eye cancers to be expected than for other rare cancers --

10 **DR. WARD:** Yeah, yeah.

11 **DR. ALDRICH:** -- but it's fully speculative.

12 **DR. WARD:** Yeah, yeah. So I guess the ques-- so -- so to the folks  
13 who are questioning whether -- what the specific mechanism or the  
14 specific agent would be, do you feel like you have enough  
15 information to vote on the motion, or do -- or -- how should we  
16 proceed?

17 **DR. HARRISON:** Yeah, this is Bob Harrison. I -- Liz, I confess I  
18 simply don't have enough information. Eye cancers are extremely  
19 rare. I don't think I've ever encountered a case in my 30 years of  
20 occupational medicine practice, and there's certainly biological  
21 plausibility to think that if IARC was to (indiscernible) for welding --  
22 for welders, that a mechanism would be irritation. But I just don't  
23 know beyond welding whether there's any other toxicologic or  
24 scientific literature that would support eliminating the clause. I  
25 just simply confess I -- I have insufficient information.

26 **DR. WARD:** Okay.

27 **MR. CASSIDY:** This is Steve Cassidy. Can I just say something?

28 **DR. HARRISON:** Yeah.

29 **MR. CASSIDY:** Somebody -- somebody earlier, I don't know who,  
30 talked about the -- I think it was Tom -- talked about the number of  
31 people who are -- who are recorded as having their eyes cleaned  
32 and washed. And having been there, I can tell you that the Red  
33 Cross and other volunteers were there every day washing the eyes  
34 of first responders. I would say that virtually every first responder  
35 who was there needed to have his eyes irrigated day after day after

1 day. So I don't know if there's any data out there that talks about  
2 people having dust in their eyes for 30 or 60 days, over a 90 or 120-  
3 day period, so maybe there is no study that we can compare this  
4 event to, but -- but I know that irritants cause cancer, and that  
5 people's eyes were irritated at a level probably never before seen,  
6 on an ongoing basis -- not a one-time, not one day, ongoing.

7 **DR. MIDDENDORF:** This is Paul. Just something that you may want  
8 to think about is that welding -- many forms of welding can  
9 generate ultraviolet light, which is an ionizing form of radiation.

10 **UNIDENTIFIED:** May I say something also as a point of what Steve  
11 just said? I just want to say that our supply tent went through  
12 boxes full of cases of saline solution and we didn't -- I mean I think  
13 we were just using the kind of saline solution that you use for  
14 contact lenses, and we were just constantly running out. It was --  
15 people just -- we just went through it, like tons of it. I know that's  
16 not very scientific, but it was just always used every day for as long  
17 as I was down there, which was three months. Thanks.

18 **MS. HUGHES:** Catherine Hughes here. I also just learned that  
19 there were wash basins at the edge of the Pile that were used  
20 regularly to clean the eyes, as well.

21 **DR. HARRISON:** Liz, may -- this is Bob Harrison. May I be  
22 recognized?

23 **DR. WARD:** Sure.

24 **DR. HARRISON:** Thank you. Do we have a mechanism, as part of  
25 the Committee process today, to -- you know, to place issues like  
26 this on a -- in a so-called parking lot, or issues that we recognize, as  
27 a Committee, are a potential concern or a possible -- possibly for  
28 listing, but that need further information or research or data? This  
29 is -- I don't know where this will come up in additional discussions.

30 **DR. WARD:** Well, I think that where we are now is that we have a  
31 motion on the floor and we have a second to the motion, and we  
32 have an amendment that was proposed and was accepted by the  
33 person who made the original motion. So I think what we would  
34 need to do is call for a vote, see what the vote is and then -- you  
35 know, it's not -- you know, again, we can put anything in the

1 parking lot, but -- unless John Howard chooses to take it out of the  
2 parking lot, it's -- you know, I -- but I do think we should go ahead  
3 and have a vote on the motion that was proposed, as amended --  
4 as Paul has captured it. Paul?

5 **DR. MIDDENDORF:** Yes. So the motion on the table now includes  
6 all of option two, except for prostate, and removes welding from  
7 the discussion of the eye. It does not include breast, brain or  
8 pancreas -- pancreatic cancer. Is that correct? Is that the motion  
9 that you have, Tom?

10 **DR. ALDRICH:** Yes, it is.

11 **DR. MIDDENDORF:** Let's go ahead and take the vote then.

12 **UNIDENTIFIED:** I have a question.

13 **DR. MIDDENDORF:** Tom Aldrich?

14 **MR. CASSIDY:** I have one question -- Steve Cassidy. Can I ask a  
15 question before the vote?

16 **DR. MIDDENDORF:** Yes.

17 **MR. CASSIDY:** Okay. If we vote yes, does that mean this is the  
18 final, or are there other people able to make motions to add things  
19 to this particular motion? I mean is this the final?

20 **DR. WARD:** No. Well, I think the idea was we vote on this, and  
21 then we have the opportunity to make motions to add additional  
22 things.

23 **MR. CASSIDY:** Okay. Thank you.

24 **DR. MIDDENDORF:** So voting on motion three, which is all of  
25 option two except prostate, and amending the discussion of the  
26 eye to remove welding, and does not include breast, brain or  
27 pancreas -- pancreatic cancer. So Tom Aldrich?

28 **DR. ALDRICH:** I vote yes.

29 **DR. MIDDENDORF:** Steve Cassidy?

30 **MR. CASSIDY:** Yes.

31 **DR. MIDDENDORF:** Valerie Dabas?

32 **MS. DABAS:** Yes.

33 **DR. MIDDENDORF:** John Dement?

34 **DR. DEMENT:** Yes.

35 **DR. MIDDENDORF:** Kimberly Flynn?

1 **MS. FLYNN:** Yes.  
2 **DR. MIDDENDORF:** Bob Harrison?  
3 **DR. HARRISON:** Yes.  
4 **DR. MIDDENDORF:** Catherine Hughes?  
5 **MS. HUGHES:** Yes.  
6 **DR. MIDDENDORF:** Steve Markowitz is not here. Guille?  
7 **MS. MEJIA:** Yes.  
8 **DR. MIDDENDORF:** Carol is not here. Julia?  
9 **DR. QUINT:** Yes.  
10 **DR. MIDDENDORF:** Bill?  
11 **DR. ROM:** Yes.  
12 **DR. MIDDENDORF:** I'd better start using last names again. Susan  
13 Sidel?  
14 **MS. SIDEL:** Yes.  
15 **DR. MIDDENDORF:** Glenn Talaska?  
16 **DR. TALASKA:** Yes.  
17 **DR. MIDDENDORF:** Leo Trasande?  
18 (No response)  
19 **DR. MIDDENDORF:** Virginia Weaver?  
20 **DR. WEAVER:** Yes.  
21 **DR. MIDDENDORF:** Liz Ward?  
22 **DR. WARD:** Yes.  
23 **DR. MIDDENDORF:** Well, that sounds like it carries unanimously  
24 from those who voted -- 14 yes and zero no.  
25 **DR. WARD:** Okay, so now we'll entertain motions on really  
26 anything people want, including cancers that are proposed to be  
27 added.  
28 One question, Paul. Should we go ahead and take the scheduled  
29 break?  
30 **DR. MIDDENDORF:** I think that would be a good idea, give  
31 everybody a chance to --  
32 **DR. WARD:** Think.  
33 **DR. MIDDENDORF:** -- break or whatever they need to do.  
34 **DR. WARD:** Yeah, great. Okay, so --  
35 **DR. MIDDENDORF:** That's for all of you for ten minutes.



1 **UNIDENTIFIED:** Liz, before we take a break, just one quick  
2 question. Are we going to be able to return to say the letter and  
3 the document for minor edits?

4 **DR. WARD:** I would hope so. I mean I -- I think first we should  
5 wrap up the major issues, and then go through the more minor  
6 ones.

7 **DR. QUINT:** Liz, this is Julia. What about factual errors, 'cause I  
8 have...

9 **DR. WARD:** Well, I don't -- I guess if they're significant, let's  
10 discuss them on the call. If they're minor, send the corrections to  
11 me and I'll make them in the document.

12 **DR. QUINT:** Okay, I --

13 **DR. MIDDENDORF:** Make sure you send anything to me that you  
14 send to Liz.

15 **DR. QUINT:** Absolutely. I don't know what you -- how you  
16 distinguish that, but there are some things that -- for which --  
17 they're incorrect, so...

18 **DR. WARD:** Okay. Well, why don't we get -- why don't we talk  
19 about them then. You know, hopefully we can -- you know, maybe  
20 the order of business should be let's finish, you know, the major  
21 recommendations, then we'll discu-- then we'll note any factual  
22 errors, and then we'll go to any more minor editing.

23 **DR. QUINT:** Okay, thanks.

24 **DR. MIDDENDORF:** So let's take a ten-minute break. We'll be back  
25 here in ten minutes sharp.

26 (Recess taken from 3:14 p.m. to 3:24 p.m.)

27 **DR. MIDDENDORF:** This is Paul again. We need to get started up,  
28 so if everybody will come back to the phone.

29 **DR. TALASKA:** Okay, Paul, Glenn's on.

30 **DR. MIDDENDORF:** I'll do a roll call here in just a second.

31 **DR. ALDRICH:** Paul, this is Tom Aldrich. Can I send you some  
32 suggested wording for that eye injury thing?

33 **DR. MIDDENDORF:** You mean for the body of the report?

34 **DR. ALDRICH:** Yeah.

35 **DR. MIDDENDORF:** Yeah, you can send it.

1 **DR. ALDRICH:** Thanks.  
2 **DR. MIDDENDORF:** Okay, let's do a roll call just to make sure  
3 everybody's here. Tom Aldrich?  
4 **DR. ALDRICH:** Here.  
5 **DR. MIDDENDORF:** Steve Cassidy?  
6 **MR. CASSIDY:** Here.  
7 **DR. MIDDENDORF:** Valerie Dabas?  
8 **MS. DABAS:** Here.  
9 **DR. MIDDENDORF:** John Dement?  
10 **DR. DEMENT:** Here.  
11 **DR. MIDDENDORF:** Kimberly Flynn?  
12 **MS. FLYNN:** Here.  
13 **DR. MIDDENDORF:** Bob Harrison?  
14 **DR. HARRISON:** Here.  
15 **DR. MIDDENDORF:** Catherine Hughes?  
16 **MS. HUGHES:** Here.  
17 **DR. MIDDENDORF:** Steve Markowitz is not here. Guille?  
18 **MS. MEJIA:** Here.  
19 **DR. MIDDENDORF:** Carol North is not here. Julia Quint?  
20 **DR. QUINT:** Here.  
21 **DR. MIDDENDORF:** Bill Rom?  
22 (No response)  
23 **DR. MIDDENDORF:** Come back to Bill. Susan Sidel?  
24 **MS. SIDEL:** Here.  
25 **DR. MIDDENDORF:** Glenn Talaska?  
26 **DR. TALASKA:** Here.  
27 **DR. MIDDENDORF:** Leo Trasande?  
28 (No response)  
29 **DR. MIDDENDORF:** Okay. Liz Ward?  
30 **DR. WARD:** Here.  
31 **DR. MIDDENDORF:** Virginia Weaver?  
32 **DR. WEAVER:** Here.  
33 **DR. MIDDENDORF:** Okay. Bill Rom, are you on yet?  
34 **DR. ROM:** Here.  
35 **DR. MIDDENDORF:** Okay, great. Okay, back to you, Liz.

1 **DR. WARD:** Okay, the floor's open for motions regarding changes  
2 or additions to the recommendations under option two.

3 (No response)

4 **DR. WARD:** Okay, so just to be clear, this is the opportunity to  
5 suggest adding additional cancers such as breast, pancreatic and  
6 brain.

7 **DR. HARRISON:** Liz, this is Bob Harrison.

8 **DR. WARD:** Yes.

9 **DR. HARRISON:** On page seven of what I have as the draft I  
10 printed, the last bullet -- it states 'The Committee recommends  
11 that lymphoma, leukemia and myeloma' and then it references  
12 Appendix 1 for the site and histology codes. Do those codes  
13 include both Hodgkin's and non-Hodgkin's lymphomas, or is it just  
14 the non-Hodgkin's lymphomas?

15 **DR. WARD:** At this point they include Hodgkin's lymphomas, and  
16 they also include CLL, which I think Bill -- Bill has some concerns  
17 about also. So that is something that we can discuss. Maybe --  
18 Paul, do we need a motion or can we just discuss it first?

19 **DR. MIDDENDORF:** You can have a little discussion, but if  
20 somebody wants to change anything there'll have to be a motion.

21 **DR. WARD:** Right, right.

22 **DR. HARRISON:** Yeah, I'm not -- I wasn't quite ready to make a  
23 motion, and I may -- I apologize if I'm out of Robert's Rules of  
24 Order here. I just had some concerns about whether we intend to  
25 include all lymphomas, both Hodgkin's and non-Hodgkin's  
26 lymphomas. I think that the level of scientific evidence for  
27 Hodgkin's disease or Hodgkin's lymphomas is less certain than for  
28 the non-Hodgkin's lymphoma.

29 **DR. WARD:** Yeah, and I can tell you why it was done this way, is  
30 that in the -- the IARC monograph program has basically lumped all  
31 of these -- the leukemias and lymphomas together. And in part it's  
32 based on the rationale that when you're looking at the  
33 epidemiologic studies, especially the historical studies of that  
34 whole group, there have been so many -- I mean some of them  
35 were based on death certificates where the classification of the

1 leukemia and lymphoma was -- was, you know, very broad. And in  
2 some cases the groupings have changed over time, so IARC kind of  
3 decided to lump all of them together because when you try to list  
4 them there's so much potential for inaccuracy. So that's -- so I kind  
5 of followed the lead of the most recent work by IARC where they  
6 were kind of tabulating cancer sites associated with IARC  
7 carcinogens and they basically put all of them together. But you  
8 know, I agree with you from what I understand, and I did double-  
9 check when, you know, you made the comment that -- you know, if  
10 -- there is very little occupational/environmental exposure that's  
11 been associated with Hodgkin's lymphoma and quite a -- you know,  
12 much more associated with NHL.

13 **DR. HARRISON:** Thank you, Liz. And with that explanation in terms  
14 of how this is listed, I agree with the current listing and the phrase  
15 then on page seven regarding the LACs. But I don't -- I don't have a  
16 specific motion to make to amend that.

17 **DR. WARD:** Okay.

18 **MS. DABAS:** Hi, Liz, this is Valerie. I wanted to make not a motion  
19 for a vote but a motion to discuss the inclusion of brain, pancreas  
20 and breast cancer. I really would kind of like to get some feedback  
21 as to why they were excluded, where are we on trying to get those  
22 included. These are three cancers that we at the PBA have seen  
23 very high amounts of.

24 **MR. CASSIDY:** This is Steve Cassidy. I'm interested in that  
25 discussion, too, and I'm not sure that when that vote was taken,  
26 and was lost eight to six, whether everybody voted no -- of the  
27 eight -- simply because all three were added, any one particular of  
28 the three, or if in fact it was the prostate cancer that was removed  
29 from option two. So I'd like to know where people stand on that  
30 also.

31 **DR. WARD:** Okay. Well, I'm comfortable with just opening the  
32 floor for discussion on these three cancers without yet having a  
33 formal motion, so anyone can begin.

34 **MS. DABAS:** This is Valerie again. I guess I would start with  
35 pancreas cancer. I think that we've included the digestive system,

1 and the pancreas is considered part of the digestive system as well  
2 as the endocrine system, and excluding that I think is very -- it  
3 doesn't make sense on the idea of biological plausibility where I  
4 read in some studies that they say that the inflammation also  
5 causes pancreas cancer, that certain carcinogens can interfere with  
6 the normal functions of cell growth, which is directly part of the  
7 endocrine system. So I'm a little confused about why pancreas was  
8 removed from the list -- was not on the list.

9 **DR. WARD:** Okay. Anyone else?

10 **UNIDENTIFIED:** Well, what are the grounds for adding it? What  
11 are the scientific grounds for adding it, other than that -- you  
12 know, we looked at the chemicals that were involved and we  
13 couldn't see chemicals where we had any sort of documentation of  
14 the exposure that were causing brain or pancreatic cancer, so I'm  
15 just wondering why -- how we would justify their inclusion and who  
16 should work on that.

17 **DR. WARD:** Who said that, you know -- I think -- I just double-  
18 checked, and you know, in the kind of groupings that I used, which  
19 were the SEER groupings, it is correct that pancreas is listed as a  
20 digestive system cancer. I can read a -- answer it better -- I didn't -  
21 - I actually didn't include all in this list of cancers, only those that  
22 were specifically indicated by the other three sources, so -- so  
23 among the digestive (inaudible) cancers there's esophagus,  
24 stomach, small intestine -- which I didn't include; colon and  
25 rectum, anus, anal canal and anorectum -- which I didn't include;  
26 liver and intrahepatic bile duct -- which I did include. Then there's  
27 gall bladder and other biliary -- I believe I didn't include; pancreas -  
28 - which I didn't include. So it was really within the digestive tract I  
29 included those that had been specifically implicated by any of the  
30 (inaudible) sources. I also included retroperitoneum, peritoneum,  
31 omentum and mesentery because I had a feeling that those kind of  
32 overlapped with the mesothelioma, but they were kind of sites  
33 where you might find mesotheliomas so I wanted to include them  
34 with central mesotheliomas. So I guess that's the rationale that  
35 was the -- you know, within the digestive tract, only those sites

1 that have been implicated by any one of the three (indiscernible)  
2 were included.

3 **UNIDENTIFIED:** So can I make a motion to consider adding  
4 pancreatic to the digestive system of organs?

5 **UNIDENTIFIED:** I second.

6 **DR. WARD:** Any discussion?

7 **DR. MIDDENDORF:** I need specific wording on the motion first.

8 **UNIDENTIFIED:** On page five, line 14, the Committee recommends  
9 certain cancers of the digestive system. So under the long list of  
10 esophagus, stomach, colon, rectum, liver, bile duct, da, da, da, da,  
11 da, include pancreatic 'cause it's related in there.

12 **DR. ALDRICH:** This is Tom Aldrich. An important reason why all  
13 those digestive tract cancers were included is because of exposure.  
14 I mean direct exposure to high volume of dust because of all the  
15 aspirated and swallowed material. And that doesn't get into  
16 contact with the pancreas in the same sense that it does with  
17 esophagus and stomach and small bowel and large bowel. And I  
18 think that's a really important difference, and so the quality of the  
19 evidence is different for the two types of digestive cancers.

20 **UNIDENTIFIED:** I guess then I look again at, you know, the  
21 inclusion of -- we can look at digestive, but we could also look at  
22 the endocrine system where we've included thyroid, we've  
23 included kidney, we've included stomach, and then again we're  
24 excluding pancreas. You know, that's two systems where we have  
25 ample amount of organs that have been included but are including  
26 -- choosing to exclude an organ that is there twice, essentially. And  
27 then, you know, from speaking to some -- just looking at the  
28 literature it says then the pancreatic cancer is one of the cancers  
29 that is very difficult to diagnose, and that might be one of the  
30 reasons why it hasn't made it on the list and the liver has.

31 **DR. MIDDENDORF:** I'm going to butt in for just a second and  
32 remind people you need to identify who is speaking so that it's on  
33 the record. So this motion was made by Tom Aldrich and the  
34 motion was the Committee recommends adding pancreatic cancer  
35 to the list of digestive tract cancers.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35

Is that the motion that's on the table?

**DR. ALDRICH:** Yeah, but it wasn't made by me.

**DR. MIDDENDORF:** Okay. Who was that made by?

**UNIDENTIFIED:** Catherine.

**MS. HUGHES:** Catherine Hughes.

**DR. MIDDENDORF:** Catherine, okay.

**DR. WARD:** And it was seconded by Valerie?

**UNIDENTIFIED:** I'll take a friendly amendment to Valerie's ideas, too. Either one is fine.

**MS. DABAS:** Yes, I would second Catherine's motion to add pancreatic cancer.

**DR. MIDDENDORF:** That was Valerie speaking.

**DR. WARD:** Right. And then it was Tom speaking --

**DR. ALDRICH:** Yeah, I said I think that the rationale for including the tubular organs in the digestive tract makes a lot more sense because it -- because there's rationale for heavy exposure. If there's rationale for environmental causes of pancreatic cancer, I'm open to it. I don't know that literature. And so I wonder if one of the people who's more familiar with that literature would like to comment on whether there's evidence of occupational or environmental triggers for pancreatic cancer.

**MS. HUGHES:** Catherine Hughes here. I understand that pancreatic cancer's on the fast track to be included under Agent Orange for the Veterans Association, the VA.

(interference)

**DR. WARD:** We're getting some interference from somebody, so if everybody would be sure they're on mute when they're not speaking.

**MS. FLYNN:** This is Kimberly Flynn. As I understand it, there are -- there is an increase in risk for pancreatic cancer from occupational exposure to diesel and other fossil fuel combustion products. Anybody know anything about that?

**DR. TALASKA:** Glenn Talaska. I couldn't see anything like that from any of the PAH studies so that -- when I looked through the PAHs.

**DR. WARD:** There are two diesel studies that just came out and I'm

1 trying to locate them, but it's -- I think -- you know, the evidence  
2 we were using was the evidence that was available from the IARC  
3 monograph, and diesel is scheduled for re-review, but it was --  
4 their review was not available right now.

5 **DR. WEAVER:** This is Virginia Weaver. Could I just ask a question  
6 of clarification?

7 **DR. WARD:** Sure.

8 **DR. WEAVER:** For the new cancers that we haven't discussed and  
9 we haven't included in the document with a rationale for inclusion,  
10 I guess that in the document to date we really approached it with a  
11 eye to documenting exactly why we were including various cancers  
12 and, since we have to finish this document in a timely fashion, it  
13 would be difficult to take the additional three cancers and be able  
14 to give them the same attention that the cancers that are in the  
15 document to date have had. So could we revisit the parking lot  
16 issue in terms of what our opportunities would be going forward if  
17 we were not to include these cancers today?

18 **DR. WARD:** Well, as I understand it, it's quite likely that we may be  
19 asked to address petitions -- in other words, if there are future  
20 petitions to add other cancers to the list, Dr. Howard has the  
21 option of asking our advice on those petitions. And at that point --  
22 you know, if he does ask for our advice, that we would have the  
23 opportunity to review the new evidence and consider whether to  
24 add those cancers. But it's also my understanding that there's -- I  
25 mean it -- we basically do have to reach agreement today, and if --  
26 let's say the sense of us on the Committee -- if the majority of the  
27 people felt that one of these three or two of these three cancers  
28 should be included, then I think we would just have to write the  
29 draft to indicate that, you know, this is the recommendation, this is  
30 what the Committee was basing the recommendation on, and you  
31 know, the time frame did not permit as full a rationale as what the  
32 -- you know, as was provided by the other sites.

33 **MS. HUGHES:** Catherine Hughes here. On the breast cancer  
34 there's recently an article in 2010 by Dr. Liu that PCBs enhance  
35 metastatic (sic) properties of breast cancer cells by activating the



1 ROCK, R-O-C-K, the Rho-associated kinase. It says the conclusions  
2 of the summary article I have, it's PCBs enhanced the metastatic (sic)  
3 propensity of breast cancer cells by activating the ROCK signaling,  
4 which is dependent on the R-O-S induced by the PCBs. So that  
5 would be possibly one article to consider under breast.

6 **DR. HARRISON:** Liz, this is Bob Harrison.

7 **DR. WARD:** Yes.

8 **DR. HARRISON:** I don't believe that we have, or at least I have,  
9 sufficient information on -- to vote to add additional cancers  
10 beyond those that are listed in the current proposal under option  
11 two without considering more scientific and epidemiological and  
12 toxicological data. And in the preface to the -- to our current draft  
13 we're using three criteria. We're using the IARC monographs for  
14 limited or sufficient evidence, respiratory and digestive tract  
15 cancers where inflammatory conditions have been documented,  
16 and then answers for which epi studies have found evidence of  
17 increased risk in World Trade Center responder and survivor  
18 populations as referenced in Table 4. And if we were going to add  
19 other cancers outside of those three criterias (sic) -- which I'm, you  
20 know, perfectly comfortable doing -- then we would, I think, need  
21 to more carefully review the scientific evidence presented for full  
22 consideration by the Committee, and then a vote. But I don't  
23 believe that I could vote without having done that first.  
24 So process-wise, I guess I'm suggesting that if this Committee  
25 needs to reconvene at a future date to review that evidence, then I  
26 would, you know, certainly be -- I think that would be the route to  
27 go.

28 **DR. WARD:** Yeah, and as I understand it -- Paul can comment as  
29 well -- basically we don't really have the option of saying we need  
30 to reconvene at a later date. I think we need to, you know, have  
31 both people -- have -- if anyone is making a motion to add any of  
32 these three cancers, we need to hear the rationale for that  
33 addition, and then we need to have discussion as -- you know, by  
34 the Committee, and then we need to take a vote. And as to  
35 whether in the future we'll look at those cancer sites again, that's

1 really up to Dr. Howard.

2 **UNIDENTIFIED:** One point of clarification also is I just want to --

3 **DR. MIDDENDORF:** Who's speaking?

4 **UNIDENTIFIED:** -- is on the future list under VA to be added under  
5 Agent Orange as well.

6 **DR. MIDDENDORF:** Was that Catherine Hughes?

7 **MS. HUGHES:** Yes, it was.

8 **DR. MIDDENDORF:** Thank you.

9 **MS. DABAS:** Hi, this is Valerie. I have a question. On page 41, the  
10 Table 2, select agent that IARC has classified as carcinogenic to  
11 humans and related cancer sites with sufficient or limited evidence,  
12 2378 tetrochlorobenzoparadoxin (ph), says all cancers combined.  
13 And I'm wondering why we haven't used that as our -- as the  
14 rationale to at least get pancreas, breast and brain in.

15 **DR. WARD:** Well, it was -- that was -- that evidence was discussed  
16 under the -- under option one. It was specifically cited under  
17 option one. I don't -- I don't see it as a direct rationale for getting  
18 pancreas, brain and breast in.

19 **MS. DABAS:** Right, but if we're saying that we would include using  
20 the rationale that we'd use for digestive system, for identifying the  
21 digestive system, adding that particular carcinogen agent to that  
22 case, to say that we believe that because the digestive system has  
23 been identified as one of the systems that we think has been  
24 compromised, to include the other organs, that we also believe  
25 that that plus this would get us there.

26 **DR. WARD:** I'm not sure I follow the logic. I mean I think -- you  
27 know, we already discussed including pancreatic as part of the  
28 digestive system and the rationale for why -- didn't think it should  
29 be included because it wasn't an organ that had direct contact with  
30 substances that were passing through the digestive tract or the  
31 upper respiratory tract.

32 So Paul, can you help me remember exactly where we are in terms  
33 of motions? We did have a motion and a second with regard to --

34 **DR. MIDDENDORF:** We have a motion on the table -- up on the  
35 screen. The motion is that the Committee recommends adding

1 pancreatic cancer to the list of digestive tract cancers.

2 **DR. WARD:** Okay.

3 **DR. MIDDENDORF:** Below that I just put the digestive tract cancers  
4 that were in the motion which passed.

5 **DR. WARD:** So maybe, Valerie -- I think maybe we can't really -- we  
6 should probably stick to discussing the pancreatic cancer right now,  
7 and then address the other cancers separately when there's a  
8 motion to do so. So is there any further discussion on the  
9 pancreatic cancer?

10 (No response)

11 **DR. WARD:** I would think it's time for a vote on the pancreatic  
12 cancer.

13 **DR. MIDDENDORF:** So motion four, which was put forward by  
14 Catherine Hughes and was -- if I remember correctly, an  
15 amendment by whom?

16 **UNIDENTIFIED:** Valerie.

17 **DR. MIDDENDORF:** Or was it just seconded?

18 **DR. WARD:** Seconded, I think.

19 **DR. MIDDENDORF:** Seconded by Valerie, is that correct?

20 **MS. DABAS:** Yes.

21 **DR. MIDDENDORF:** Okay. So the motion on the table is  
22 'Committee recommends adding pancreatic cancer to the list of  
23 digestive tract cancers.'

24 And going to the vote, we'll do it again alphabetically. Tom  
25 Aldrich?

26 **DR. ALDRICH:** No.

27 **DR. MIDDENDORF:** Steve Cassidy?

28 **MR. CASSIDY:** Yes.

29 **DR. MIDDENDORF:** Valerie Dabas?

30 **MS. DABAS:** Yes.

31 **DR. MIDDENDORF:** John Dement?

32 **DR. DEMENT:** No.

33 **DR. MIDDENDORF:** Kimberly Flynn?

34 **MS. FLYNN:** Yes.

35 **DR. MIDDENDORF:** Bob Harrison?

1 **DR. HARRISON:** No.  
2 **DR. MIDDENDORF:** Catherine Hughes?  
3 **MS. HUGHES:** Yes.  
4 **DR. MIDDENDORF:** Steve Markowitz is not here. Guille?  
5 **MS. MEJIA:** Yes.  
6 **DR. MIDDENDORF:** Carol North is not here. Julia Quint?  
7 **DR. QUINT:** No.  
8 **DR. MIDDENDORF:** Bill Rom?  
9 **DR. ROM:** No.  
10 **DR. MIDDENDORF:** Susan Sidel?  
11 **MS. SIDEL:** Yes.  
12 **DR. MIDDENDORF:** Glenn Talaska?  
13 **DR. TALASKA:** No.  
14 **DR. MIDDENDORF:** Leo Trasande?  
15 **DR. TRASANDE:** No.  
16 **DR. MIDDENDORF:** Liz Ward? No, excuse me, Virginia Weaver?  
17 **DR. WEAVER:** No.  
18 **DR. MIDDENDORF:** Liz Ward?  
19 **DR. WARD:** No.  
20 **DR. MIDDENDORF:** Okay, the count I get is nine no and six yes.  
21 The motion does not carry.  
22 **DR. WARD:** Okay, so the floor is open for additional motions. Or  
23 topics for discussion, if not motions.  
24 **MS. SIDEL:** I'd like to make a motion to add brain cancer. I'm --  
25 sorry, Susan Sidel.  
26 **DR. WARD:** Is there a second?  
27 **MS. HUGHES:** Catherine Hughes, yes.  
28 **DR. WARD:** Okay. So can we have some discussion on the  
29 rationale for adding brain cancer?  
30 **UNIDENTIFIED:** Isn't the brain the largest part of the nervous  
31 system, and the nervous system interfaces with the circulatory  
32 system and the lymphatic system, and the pulmonary as well.  
33 **DR. MIDDENDORF:** I just want to make sure who -- excuse me for  
34 just a second, I -- who made the motion? Was that Susan Sidel?  
35 **MS. SIDEL:** Yes, and Catherine seconded.

1 **DR. MIDDENDORF:** Catherine seconded, thank you. And is this the  
2 correct motion, 'The Committee recommends adding brain cancer  
3 to the list of covered conditions'?

4 **MS. SIDEL:** Correct.

5 **DR. MIDDENDORF:** Okay.

6 **MS. SIDEL:** Thank you.

7 **DR. WARD:** Is there anyone else who wants to speak to the point  
8 of the rationale for adding brain cancer?

9 **DR. HARRISON:** This is Bob Harrison. I would just like to point out  
10 I believe that there's some evidence that exposure to solvents, in  
11 some studies, increases the risk of brain cancers. I don't know  
12 whether solvents, or solvent exposure, was among the World Trade  
13 Center. I know that we have identified benzene.

14 **UNIDENTIFIED:** Yeah, I just understand that some of the main floor  
15 of the World Trade Centers that was full of solvents -- oh, in the  
16 sub-basement, yeah.

17 **MS. SIDEL:** Even in another -- I'm sorry, Susan Sidel. May I speak?

18 **DR. WARD:** Yes.

19 **MS. SIDEL:** Catherine, maybe you can help me out with this, but  
20 didn't we talk about there were several doctors' offices in the  
21 towers that had X-ray machines? So that would be radiation.

22 **MS. HUGHES:** Okay, what I understand is there's a large cooling  
23 system which had a lot of the solvents in it, it was in the basement  
24 and the seventh and eighth floor.

25 **UNIDENTIFIED:** That was (indiscernible).

26 **DR. WEAVER:** Virginia Weaver. So it would be great to be able to  
27 flesh some of this out in more detail. There's data suggesting that  
28 formaldehyde increases brain cancer, although apparently it's  
29 somewhat population-dependent. We do know that formaldehyde  
30 is present in combustion products. There is an increased risk of  
31 brain cancer in firefighters, again suggesting that it may be  
32 reflecting combustion exposures. However, it's kind of hard to do  
33 this on the fly without being able to think through the lines of  
34 evidence and the fact that brain cancer did not fall out using our a  
35 priori criteria.

1 **DR. DEMENT:** This is John Dement. May I speak?

2 **DR. WARD:** Yes, John.

3 **DR. DEMENT:** I think this is one that's actually harder to come to  
4 consensus about than the pancreatic cancer because I think, as  
5 Virginia's pointed out, there are some exposures and actually a  
6 number of case control studies, too, that point to firefighting and  
7 solvents as brain cancer risks. But unfortunately, I don't think it -- I  
8 don't think the level of evidence has risen to a level that would be  
9 sufficient for IARC to classify it as such. There probably hasn't  
10 been a review done in a while either, but nonetheless, that sort of  
11 dates those data.

12 Also didn't vinyl chloride have some question about brain cancer, a  
13 relationship, at one time as well?

14 **DR. WEAVER:** Virginia -- yes, I think it did.

15 **MS. HUGHES:** And also there was lots of plastics. Think of all the  
16 computer terminals that were -- you know, imbedded in plastic  
17 boxes, PVC --

18 **UNIDENTIFIED:** Carpet.

19 **MS. HUGHES:** -- and everything like that, carpeting.

20 **DR. WARD:** And so the one thing I can speak to is that in the most  
21 recent IARC review brain cancer was not identified as one of the  
22 sites. I think there were some early findings, but then the later,  
23 larger studies did not see excess risk for brain cancer.

24 **MS. DABAS:** Hi, this is Valerie. I just wanted to know -- Dr. Rom  
25 spoke earlier saying that he was doing some work on brain -- if he  
26 had any thoughts on this. I might regret it, but...

27 **DR. ROM:** This is Bill Rom. Beyond what Bob Harrison said with  
28 the solvent exposure, I really have nothing to add. And I think this  
29 is a type of cancer that's under investigation, but there's no real  
30 hard evidence for occupational/environmental exposures yet.

31 **DR. WARD:** I think unfortunately there's been a lot of studies that,  
32 you know, were motivated by brain cancer clusters in various  
33 industries. And frequently it turns out that there really isn't either  
34 an excess risk or there isn't anything in particular that the brain  
35 cancers are associated with. So it's been one of the very difficult

1 cancers in occupational health because it's -- you know, there's  
2 been actually a lot of studies and they haven't really led to any  
3 clear conclusions about the causes -- whether there's an excess and  
4 what the causes might be.

5 So I -- I mean if no one has any further comment, we can just call  
6 this motion to a vote.

7 **UNIDENTIFIED:** I just have a quick question here.

8 **DR. MIDDENDORF:** Who is that?

9 **MS. HUGHES:** This is Hughes -- Catherine Hughes. I understand  
10 someone has -- if we vote to exclude a particular site, if -- a  
11 lymphoma is still -- is lymphoma still covered in a non-covered site?  
12 For example, someone has a lymphoma cancer in the brain?

13 **DR. WARD:** To the best of my knowledge, yes. I mean lymphomas  
14 are classified as a group, regardless of what site they arise in, so --  
15 and I will -- I didn't include the appendix of sites and histologies,  
16 but I will. And I assume that the program -- you know, if the  
17 program chooses to accept our recommendations, obviously they  
18 will look in detail and make sure that all the relevant sites and  
19 codes are included, but I made my best attempt using the SEER  
20 database to specify that, and I think basically when -- you know, for  
21 certain cancers like lymphomas, regardless of what site in the body  
22 they arise in, they're classified as a lymphoma because most  
23 cancers do arise in lymphatic tissue all over the body.

24 So Paul, shall we go ahead and have a vote?

25 **DR. MIDDENDORF:** Okay. So the motion on the table is 'The  
26 Committee recommends adding brain cancer to the list of covered  
27 conditions.'

28 With the vote here -- Tom Aldrich?

29 **DR. ALDRICH:** No.

30 **DR. MIDDENDORF:** Steve Cassidy?

31 **MR. CASSIDY:** Yes.

32 **DR. MIDDENDORF:** Valerie Dabas?

33 **MS. DABAS:** Yes.

34 **DR. MIDDENDORF:** John Dement?

35 **DR. DEMENT:** No.

1 **DR. MIDDENDORF:** Kimberly Flynn?  
2 **MS. FLYNN:** Yes.  
3 **DR. MIDDENDORF:** Bob Harrison?  
4 **DR. HARRISON:** Yes.  
5 **DR. MIDDENDORF:** Catherine Hughes?  
6 **MS. HUGHES:** Yes.  
7 **DR. MIDDENDORF:** Steve Markowitz is not here. Guille?  
8 **MS. MEJIA:** Yes.  
9 **DR. MIDDENDORF:** Carol North is not here. Julia Quint?  
10 **DR. QUINT:** No.  
11 **DR. MIDDENDORF:** Bill Rom?  
12 **DR. ROM:** No.  
13 **DR. MIDDENDORF:** Susan Sidel?  
14 **MS. SIDEL:** Yes.  
15 **DR. MIDDENDORF:** Glenn Talaska?  
16 **DR. TALASKA:** No.  
17 **DR. MIDDENDORF:** Leo Trasande?  
18 **DR. TRASANDE:** No.  
19 **DR. MIDDENDORF:** Virginia Weaver?  
20 **DR. WEAVER:** No.  
21 **DR. MIDDENDORF:** And Liz Ward?  
22 **DR. WARD:** No.  
23 **DR. MIDDENDORF:** Eight nos, seven yes. Eight no, seven yes.  
24 **DR. WARD:** Thank you, Paul. So additional motions?  
25 **MS. FLYNN:** The Committee recommends -- this is Kimberly. The  
26 Committee recommends the addition of breast cancer to the list of  
27 covered conditions.  
28 **MS. SIDEL:** I second it. I'm Susan Sidel. I second her mo--  
29 Kimberly's motion.  
30 **DR. WARD:** Thank you. So shall we have a dis-- have people who  
31 want to speak to the rationale for adding breast cancer?  
32 **DR. MIDDENDORF:** Just one quick thing, was that Kimberly who  
33 made the motion?  
34 **MS. FLYNN:** Yes, it was.  
35 **DR. MIDDENDORF:** Okay. And Susan seconded?



1 **MS. SIDEL:** I did -- seconded it.

2 **DR. MIDDENDORF:** Okay. And is this the correct motion, 'The  
3 Committee recommends adding breast cancer to the list of covered  
4 conditions'?

5 **MS. FLYNN:** Yes.

6 **DR. WARD:** So I know people have -- several people have spoken  
7 on the rationale for breast cancer before, but it probably would be  
8 useful at this point, even if -- if you've said something before, say it  
9 again, because we really need to lay out the rationale as strongly  
10 and clearly as possible so that the Committee can consider whether  
11 they think that there's sufficient rationale for adding it.

12 **MS. HUGHES:** Hughes, one, there were many -- there was  
13 endocrine disrupters there; two, stress can attribute to increased  
14 cancer; three, Agent Orange -- breast cancer's on the fast track for  
15 that.

16 **DR. WARD:** Anyone else?

17 **MS. HUGHES:** I'm sorry, and four, there have been limited studies  
18 of women in occupational health.

19 **MS. DABAS:** Hi, this is Valerie. I think one of the things that I read  
20 in Environmental Health Perspective was the estrogen effect and  
21 BPAs, and that exposure to BPAs can cause the body to produce  
22 estrogen and then lead to breast cancer. So I think when we  
23 looked at plastics that were at the World Trade Center, some of the  
24 things that they talked about were cleaning products, plastic from  
25 computers, linoleum from the floors, the vinyls, synthetic  
26 fragrances and fabrics such as carpet that were burning. So I think  
27 there is some indication that, you know -- that this could have  
28 caused increased estrogen in women that's causing the breast  
29 cancer.

30 **DR. WARD:** So does anyone who's not in favor of adding breast  
31 cancer want to speak to their rationale?

32 **DR. QUINT:** Well, before you do that -- this is Julia.

33 **DR. WARD:** Okay.

34 **DR. QUINT:** I haven't decided one way or the other yet, but I just  
35 want to say that there are lots -- there are data, studies, both in

1 vivo and epidem-- animal studies and human studies,  
2 epidemiological studies indicating an association between PCBs and  
3 breast cancer. And also there is a new -- and they're not  
4 consistent, I should say that, so that gives me some pause. But  
5 there is a new -- fairly new study showing increase in breast cancer  
6 metastasis with PCBs and a specific mechanism that's been  
7 proposed, and that was shown both in vivo and in cell cultures. So  
8 I think we have a specific WTC exposure of PCBs linked to breast  
9 cancer and, as I said, the data are not consistent in terms of the  
10 association. But the new study showing an increase in breast  
11 cancer metastasis, that is just one study, but it's pretty solid,  
12 seemingly, evidence. I think it adds some weight.

13 **DR. WARD:** Glenn, you were -- I think you were the person who did  
14 most of the work on exposure levels to PCBs. Do you want to  
15 comment?

16 **DR. TALASKA:** Well, you know, the data -- there weren't data that  
17 indicated that those -- at least biological. But again, subject to the  
18 limitations of all the data that were collected, a relatively small  
19 number of people that were collected after the fact, but fairly  
20 persistent compounds, PCBs and -- so they should have been  
21 increased in the people that were measured by the CDC. And I'm  
22 just checking the wording that we did -- no, and I don't believe that  
23 they were.

24 The dioxin is a similar thing. We had the window films that showed  
25 that there were relatively high levels on the -- in the windows, but  
26 there weren't elevated levels of any of the dioxins in the people  
27 that were studied by -- again, by the CDC.

28 Then there were increases -- let's see, on one congener was  
29 increased in exposed firefighters. Only one of the congeners in the  
30 mean values were 27.8 parts per trillion for all site firefighters; 30  
31 parts per trillion for those present at the collapse; 26.2 for those  
32 arriving day one or day two, and 30.6 for those in special  
33 operations. The firefighters not at the site had a lower average for  
34 that one congener, so that was elevated. In retrospect, the  
35 average was -- for the Agent Orange, the average, measured ten

1 years after their exposure, was -- in the ranch hand study was 49  
2 parts per trillion and ranged to 313. So you know, they had -- they  
3 had ten years for the stuff to go away. It has about a seven-year  
4 half-life, if I remember correctly, and they were -- and their levels  
5 were several times higher than what were seen in any of the  
6 people that were measured in the early -- as far as we know, since  
7 we didn't get the range -- in the -- at the World Trade Center. And  
8 that was only one congener, and it wasn't for TCDD itself, which --  
9 that's the biggest one in terms of exposure for dioxin and/or for  
10 PCBs.

11 I'm re-looking at what we wrote. They certainly were at the site,  
12 but the lev-- the air levels were said to reduce -- be reduced fairly  
13 quickly. And again that's to be expected because PCBs are -- have a  
14 really low vapor pressure. But you know, there still could be  
15 dermal absorption from them, so that's the other side of the coin.  
16 Again, Edelman did not see a difference between any of the mean  
17 values of the firefighters or people -- or the firefighters who never  
18 entered the Ground Zero site.

19 Dahlgren did see levels in -- I think he studied seven first  
20 responders and that three were above the 75th percentile, two  
21 above the 90th and one above the 95th percentile, which would  
22 probably be unusual. But again, they -- that report was limited  
23 because they didn't say how these people -- the seven people were  
24 selected, although they did see some elevation in PCBs, too.  
25 So the data are mixed -- there is no other way to put it -- in terms  
26 of the exposure for PCBs and dioxin. It seems like there was an  
27 enormous amount of dioxin in the air to begin with, but at least it  
28 seems from the data that either it didn't get into people readily,  
29 which is a very good thing -- and with the PCBs there's some  
30 indication of exposure to some people to elevated levels of PCBs,  
31 but those data are limited.

32 **DR. WARD:** Good. And this is Liz. I think, you know, from my  
33 point of view, you know, one of the things that we didn't look at  
34 and we -- there probably isn't enough data to look at, but probably  
35 should be on the agenda for future research, is kind of the effects

1 of the stress related to the World Trade Center exposures and how  
2 that might have affected the endocrine system, and that might  
3 have some direct bearing on breast cancer. But at this point, the  
4 studies just aren't -- I mean the studies haven't been done to show  
5 that.

6 I guess the other exposure that has been related to breast cancer is  
7 shift work. But again, you know, IARC did an evaluation of that and  
8 I think it -- based on limited evidence in humans, but then  
9 subsequent studies have not been confirmed at the early  
10 association. So -- and I do agree with the comments and I just  
11 don't know how to deal with it that, you know, there have been  
12 very few -- because so few women were involved in the industrial  
13 occupations that form a large part of the base of our knowledge  
14 about occupational carcinogens, we really don't have good  
15 information about the effect of many carcinogens on causing  
16 cancer of the female breast. Even the male breast is such a rare  
17 cancer that it wouldn't be picked up in occupational studies.

18 **MS. FLYNN:** This is Kimberly, excuse me, but I think this is actually  
19 a perfect instance where we really do need to lean on the  
20 precautionary principle. We are not going to have this information,  
21 number one. Number two, we are not just talking about shift work.  
22 We're talking about shift work on steroids. I mean we're talking  
23 about extreme shift work that was being done by female  
24 responders who were simultaneously being exposed to, you know,  
25 plastics fumes, who were simultaneously being exposed to 2378  
26 PCBD, who were simultaneously being exposed to probably a range  
27 of xenoestrogens in World Trade Center dust and smoke. I guess  
28 I'm asking whether or not there's some possibility of pulling  
29 together a rationale here when we have a population that is -- you  
30 know, whose health impacts are simply not ever going to be  
31 addressed by occupational studies, you know, in the next 15 to 20  
32 years. And I guess I want to throw in that Edelman -- you know, I  
33 don't want to repeat my comments, but Edelman is extremely  
34 limited. And Glenn, you actually raised at least three important  
35 criticisms with respect to the inadequacy of the Edelman -- of the

1 information provided in Edelman. I'd also like to say that we're  
2 talking about, you know, exposures that are bio-- are cumulative  
3 and we're talking about one stint on the Pile, one stint in  
4 downtown where, you know, had Edelman come back and retested,  
5 he might have gotten much higher blood lipid levels.

6 **DR. TALASKA:** This is Glenn. My major concern with Edelman, at  
7 least to the PAHs, was the fact that those things have a fairly short  
8 half-life, and yet he didn't sample until 21 days after the peak.

9 With dioxin compounds, as I was trying to point out in the -- by  
10 bringing up the ranch hand study, you know, when they sampled  
11 those people ten years after their exposure, they were still half-  
12 again higher than the highest ones that were reported at the -- at  
13 Ground Zero. And so that was a ten-year lag, where it would have  
14 shown up relatively quickly after the exposure and it should have  
15 been maintained for 21 days if you can see it ten years later.

16 That's my concern with, you know, making the inclusion.

17 You know, philosophically and personally, it's something that --  
18 yeah, you'd like to see everyone -- this particular disease covered  
19 because there's a possibility that perhaps there was some  
20 exposures in some individuals, and that a few individuals whose  
21 disease may be related to those exposures. You know, there's a  
22 possibility that that would be happening, based upon the data,  
23 because we don't have the ranges. We don't know what -- what --  
24 the peak that Edelman saw for most of the markers that he  
25 measured. But it's -- it would -- at least from -- the types of  
26 exposures relative to what was seen in other places, it seems like  
27 that would -- seem to me the probability would be that there  
28 would be very few of those.

29 So on -- you know, at one hand I would support the notion, but the  
30 science just isn't there to say that this is a condition where  
31 everybody would -- or you would expect that people would have  
32 this in an elevated probability. But I'm sure on an individual basis  
33 there probably is somebody -- I can't say I'm sure. There may be  
34 on an individual basis somebody who had a high level that just  
35 wasn't documented because they weren't with some of those --

1 directly with some of the transformers or in the smoke from a  
2 particular transformer fire that had some in it. You know, that's  
3 where the chance is, as far as I can see.

4 Does that make sense?

5 **DR. WARD:** That makes sense to me -- this is Liz. But even so,  
6 though, there's not a strong established association between PCBs  
7 and breast cancer.

8 **DR. TALASKA:** Correct.

9 **DR. WARD:** So it's not -- I mean so it's not like we're saying there is  
10 a strong epidemiologic association and if someone happened to be  
11 in the plume when -- you know, near a transformer fire, then that  
12 would have been a reasonable assumption that they would have  
13 gotten a high exposure that would result in breast cancer. So the  
14 problem is we don't have strong evidence for an association  
15 between PCBs or TCDD and breast cancer, and we don't have  
16 evidence -- we don't have much evidence that there was elevated  
17 exposure in the population as a whole.

18 **MS. FLYNN:** This is Kimberly. I think, again -- I mean, and I won't  
19 rehearse this, but the idea that we don't have that kind of exposure  
20 data doesn't mean that those exposures didn't happen, number  
21 one. And number two, I guess I'm wondering if there isn't any way  
22 for us to craft a similar rationale to the rationale for coverage of  
23 pediatric cancers, to cover female breast cancer, because we have  
24 a small group of women in the monitoring program and we have a  
25 very small group of women being seen at the World Trade Center  
26 Environmental Health Center. We don't really have the possibility  
27 of getting, you know, large enough numbers to be able to see an  
28 up-tick.

29 **MS. SIDEL:** Hi, this is Susan. Could I speak, please?

30 **DR. WARD:** Sure.

31 **MS. SIDEL:** You know, I have such a tough time with basing  
32 anything on exposure data because it is so faulty, and it's almost as  
33 though the people that really needed the exposure data to be  
34 accurate are the ones that are sort of being penalized because it  
35 isn't, and so that's what sort of makes it really tough for me on a

1 moral basis.

2 The other thing is that women have just not had any kind of special  
3 consideration whatsoever in the program -- well, maybe a little bit  
4 over at Bellevue, but I know that in the responder programs there's  
5 no special studies that deal with women's health and I know that a  
6 lot of women have been impacted in very specific ways. It's just a  
7 fault of the program because it's -- you know, you're not seeing  
8 large numbers of women so there's a bias generally. And it's  
9 difficult because, you know, we're recognizing that there's a  
10 problem, but we're not in a position to do anything about it  
11 because that would be prol-- you know, that's not the policy. So I  
12 just sort of feel as though there has to be some other way that we  
13 can get this in because I just don't think that you'll ever get the  
14 kind of research that you need because no one is going to -- no one  
15 is going to really do that research based on the numbers of people  
16 that we have in the program, the number of women. It seems --  
17 you know, ten years out it doesn't seem like anybody's really  
18 interested in studying women's health.

19 **MR. CASSIDY:** Steve Cassidy, can I say something?

20 **DR. WARD:** Sure, go ahead, Steve.

21 **MR. CASSIDY:** I mean I know that the fire department is doing an  
22 EMS study. I know there are a lot of women included in it. It's  
23 frustrating that the results are not available at this time. It's just  
24 frustrating that we don't have more data, but I know there is an  
25 extensive study being done of EMS and they have a significant  
26 population of women involved, to my knowledge.

27 **DR. WARD:** Thanks. And I also think it's -- it's not exactly  
28 analogous to childhood cancer because the expected incidence of  
29 breast cancer in the population is much greater than the expected  
30 incidence of childhood cancer. So I think that even if you have  
31 relatively small numbers of women in studies, you have more  
32 opportunity to actually see an increased risk, if there is one.

33 **MS. HUGHES:** Catherine here. What if the age onset happens at an  
34 earlier age than normal?

35 **DR. WARD:** Well, in the write-up of the rare cancer sites we did -- I

1 mean and this is just a proposal and, you know, it's kind of  
2 something that the program would have to work on  
3 implementation of, but the con-- at least conceptually the idea was  
4 one would look at cancer sites by at least decade of age. So for  
5 example, if someone got breast cancer and they were 25 years old,  
6 that would likely qualify as a rare cancer. So if -- because it is, you  
7 know, reasonable that some cancers -- you know, what you would  
8 see is a shift towards earlier age at diagnosis if there was an  
9 increased risk.

10 **DR. QUINT:** This is Julia. One of the issues, as I understand it, with  
11 PCBs -- and this is based on just one study -- is metas-- you know,  
12 the metastasis issue, so that not so much causation with PCB but  
13 this new -- this study I mentioned, and I can send you the reference  
14 -- show that PCBs actually, you know, cause the breast cancer to  
15 metastasize to other sites, which would end up, you know, going  
16 from treatable possibly to fatal cancer in women if this is really  
17 true -- I mean if this bears out down the line. I know the specific  
18 mechanism -- you know, reactive oxygen species generated by the  
19 PCBs that activated a specific site mechanism that caused it. So I  
20 guess my question is whether or not, in making recommendations  
21 to the Director, that we should consider, you know, a cancer that --  
22 you know, an exposure that could cause a cancer to metastasize,  
23 whether or not that would be considered an exacerbation of an  
24 existing condition or something like that, it if turns out -- the  
25 exposure data side, I know there are issues with that and I'm not  
26 sure how many women were actually included in Edelman's study,  
27 but -- so the question is whether or not, if it turns out that PCBs  
28 could, you know, influence metastasis of breast cancer, whether or  
29 not that would qualify in terms of the -- what we're asked to  
30 recommend here, you know, 'cause I'm not talking about causation  
31 'cause those data are inconsistent. But if it turns -- I mean would  
32 that be a legitimate area to comment on -- to make a  
33 recommendation on, or to base a recommendation on?

34 **DR. WARD:** Well, I can -- I think I can give you an off-the-cuff  
35 opinion. I mean I think if there was, you know, a body of evidence



1 that had been -- you know, where there was -- you know, it wasn't  
2 just this was the first study and it didn't -- that -- if there was a  
3 consistent body of evidence that showed an association between  
4 PCB levels and likelihood of metastasis, then I don't think -- I don't  
5 necessarily know that it would -- how it -- how the final decision  
6 would be made at this point in time given the criteria that we --  
7 that started with. I can say, as someone in the cancer field, this is  
8 not something that -- you know, the effect of environmental  
9 exposures on likelihood of metastasis or likelihood -- you know, or  
10 on -- or even on survival after diagnosis is not an area that's been  
11 really well-researched, so it's not something where I think one  
12 would readily find a body of literature or a lot of precedents about  
13 how that type of data was handled in, you know, regulatory or  
14 advisory bodies. But -- but certainly -- you know, I think if there  
15 was a solid body of evidence showing that a particular exposure  
16 that was present at the World Trade Center, you know, was  
17 associated with an increased likelihood of metastasis, then maybe  
18 one could -- one could even think about including, you know, more  
19 advanced cases of particular diseases in the category as World  
20 Trade Center-related conditions.

21 So are there any further comments before we bring this motion to  
22 a vote?

23 **UNIDENTIFIED:** Just wanted to answer the question, I don't believe  
24 there were any women studied by Edelman. I could be wrong --

25 **UNIDENTIFIED:** Yes.

26 **UNIDENTIFIED:** -- it wasn't indicated.

27 **UNIDENTIFIED:** I think you're right. I'm looking at it right now.

28 **UNIDENTIFIED:** Yeah, I am, too, and they don't mention anything  
29 at all about gender.

30 **UNIDENTIFIED:** Gender, yeah.

31 **UNIDENTIFIED:** So, just to clarify.

32 **DR. WARD:** Okay. So any further comments or questions before  
33 we call for a vote?

34 (No response)

35 **DR. WARD:** Okay. Paul?

1 **DR. MIDDENDORF:** Okay. The motion before the Committee is  
2 'The Committee recommends adding breast cancer to the list of  
3 covered conditions.'  
4 Okay, Tom Aldrich?  
5 **DR. ALDRICH:** Yes.  
6 **DR. MIDDENDORF:** Steve Cassidy?  
7 **MR. CASSIDY:** Yes.  
8 **DR. MIDDENDORF:** Valerie Dabas?  
9 **MS. DABAS:** Yes.  
10 **DR. MIDDENDORF:** John Dement?  
11 **DR. DEMENT:** No.  
12 **DR. MIDDENDORF:** Kimberly Flynn?  
13 **MS. FLYNN:** Yes.  
14 **DR. MIDDENDORF:** Bob Harrison?  
15 **DR. HARRISON:** No.  
16 **DR. MIDDENDORF:** Catherine Hughes?  
17 **MS. HUGHES:** Yes.  
18 **DR. MIDDENDORF:** Guille?  
19 **MS. MEJIA:** Yes.  
20 **DR. MIDDENDORF:** Julia Quint?  
21 **DR. QUINT:** Yes.  
22 **DR. MIDDENDORF:** Bill Rom?  
23 **DR. ROM:** No.  
24 **DR. MIDDENDORF:** Susan Sidel?  
25 **MS. SIDEL:** Yes.  
26 **DR. MIDDENDORF:** Glenn Talaska?  
27 **DR. TALASKA:** No.  
28 **DR. MIDDENDORF:** Leo Trasande?  
29 **DR. TRASANDE:** Yes.  
30 **DR. MIDDENDORF:** Virginia Weaver?  
31 **DR. WEAVER:** No.  
32 **DR. MIDDENDORF:** Liz Ward?  
33 **DR. WARD:** No.  
34 **DR. MIDDENDORF:** Okay. Okay, I have nine yes and six no. The  
35 motion would carry.

1 **DR. WARD:** Okay, so now what we --

2 **DR. MIDDENDORF:** Liz, before moving on, I need to clarify one  
3 thing. A question for Bob Harrison, your vote on motion number  
4 five, 'The Committee recommends adding brain cancer to the list of  
5 covered conditions' -- could you restate your vote? I mean it  
6 doesn't make a difference in terms of the outcome, but it does  
7 make a difference in terms of being sure that we're accurate.

8 **DR. HARRISON:** Yes, that was yes.

9 **DR. MIDDENDORF:** It was yes. Okay, thank you. Back to you, Liz.

10 **DR. WARD:** Okay. So as I understand it, what we need to do now  
11 is really draft the text providing the rationale for recommending  
12 that breast cancer be listed as a World Trade Center-related  
13 condition. And maybe some of the Committee members that voted  
14 yes could try to give Paul some language that he could incorporate  
15 into the document, hopefully modeled along -- you know, I mean  
16 similar to the kind of information that we provided for the sites  
17 that were initially included.

18 (Pause)

19 **DR. WARD:** So I guess one rationale was that several of the -- well,  
20 I guess one big part of the rationale is that the li-- you know, that  
21 much less is known about occupational/environmental causes of  
22 breast cancer than other cancers because very few studies have  
23 been done in women. That was one -- in women in industrial  
24 occupations. That's one point. I don't know if it would be the first  
25 point.

26 Paul, are you trying to get this?

27 **DR. MIDDENDORF:** Yeah, I'm trying to find out where you are at  
28 the moment.

29 **DR. WARD:** Well, we're nowhere because we're adding a new  
30 cancer site -- I mean --

31 **DR. MIDDENDORF:** So do you want this at the bottom of the list?

32 **DR. WARD:** Right.

33 **DR. MIDDENDORF:** Okay, for option two.

34 **DR. WARD:** Well, yeah. I mean I guess we want to put it before --

35 **DR. MIDDENDORF:** Do you want to draft that now or do you want

1 to work on the other two possible motions?

2 **DR. WARD:** What other two possible motions?

3 **DR. MIDDENDORF:** One on...

4 **DR. WARD:** I mean, as I recall, there were -- I mean, at least with  
5 regard to cancer sites, there were three possible motions, two of  
6 which we voted no and one of which we voted yes, which is breast.  
7 So --

8 **DR. MIDDENDORF:** I guess I was thinking of the rare cancer and  
9 childhood cancer.

10 **DR. WARD:** I was assuming that that was included in the --

11 **DR. MIDDENDORF:** Included in the larger list?

12 **DR. WARD:** I thought so. Was everyone else --

13 **DR. MIDDENDORF:** Okay, rare cancers is there, childhood cancers  
14 is there, yes. They are there. Okay.

15 **MS. DABAS:** Yes, but -- this is Valerie -- I don't think we -- I think  
16 there was some questions about the definition of rare cancers that  
17 was brought up on email.

18 **DR. WARD:** There were -- well, I don't recall. I mean does anybody  
19 have a problem with the way it -- it's not specifically defined here.  
20 If you look at -- in the cover letter, and then if you -- I mean in the  
21 cover letter it's not -- a specific cutoff isn't given. But if you go  
22 back and look at the supporting document -- I'm trying to find it, I  
23 think on page 27. So basically what it -- what it's saying on page 27  
24 is that it's acknowledging that there's lots of different ways that  
25 cancers are classified. Most commonly in epidemiologic studies  
26 they're classified by organ site of origin, but they're -- all cancers  
27 that are diagnosed are -- have essentially two major classifications.  
28 One is with regard to the organ site and the other is with regard to  
29 the histology. So for exam-- and the two examples we cited here  
30 are -- so for vinyl chloride (indiscernible) exposure, the cancer site  
31 that was most strongly associated with it was angiosarcoma of the  
32 liver, which is a specific histological site, distinct from the more  
33 common type of liver cancers, although ultimately it turned out  
34 that vinyl chloride was associated with the common type as well,  
35 but similarly for bis(chloromethyl) ether, it was really a cluster of

1 small cell carcinoma or oat cell carcinoma that was associated with  
2 that specific chemical. So what we're saying here is that we would  
3 really want the classification of rarity to be based either on site or  
4 site plus histology to allow for that. We're also saying that we  
5 would want the classification of rare cancers to be based -- you  
6 know, based for -- based on a patient's age, gender. For example,  
7 breast cancer in men would be rare; it wouldn't be rare in most age  
8 groups in women. So I think the idea here was to give the program  
9 general guidance, but not to specify -- I mean there were some  
10 email conversations that, you know, 15 per-- you know, you  
11 wouldn't want to classify 25 percent of cancers that happen in the  
12 United States as rare. But I think we were trying to give the  
13 program some general guidance, and then they would  
14 operationalize the guidance. But the idea would be to be really  
15 inclusive of various options by which a cancer could be called rare.  
16 **MS. DABAS:** Okay, thank you. Sorry, I didn't see that part --  
17 portion of the -- that included the age. Sorry.  
18 **DR. WARD:** So -- but -- so before we go into the rationale for  
19 adding breast, are there any other motions that people want to  
20 bring to the floor before we work on the language for the breast  
21 rationale, and then we work on -- we ask for any factual errors that  
22 were found in the documents, any editorial suggestions?  
23 **MS. DABAS:** Hi, it's Valerie again, I'm sorry. I just -- I wanted to  
24 get a vote on the prostate cancer and the rationale behind why we  
25 chose to exclude the prostate cancer. The three rationales that we  
26 used was IARC was -- which I believe prostate is on there in the  
27 second section of that. Also we used epidemiological studies and it  
28 appeared in the fire department studies, and we all are aware that  
29 it will appear in the other two studies that are coming shortly. And  
30 then when it goes to biological plausibility as far as inflammation  
31 and so forth, I think that -- you know, it fit two -- at least two of  
32 the three criteria that we put -- fit at least in two categories and  
33 for others all it needed to do was fit in one, so I think that -- I'd like  
34 to see a vote on the prostate cancer as well as some discussion on  
35 the rationalization for removing it.

1 **DR. MIDDENDORF:** I think the vote has already taken place.

2 **DR. ALDRICH:** This is Tom Aldrich. It's not right that the fire  
3 department say is positive for prostate. Actually it was -- did not  
4 show increased prostate when compared to the high-exposed  
5 firefighters.

6 **DR. WARD:** Yeah, and I picked it up initially because I was really  
7 using -- I didn't want to -- I wanted to put things on the table and  
8 not screen them out so, you know, there was one positive signal for  
9 prostate cancer which was the comparison of exposed to the  
10 general population, but then when you went deeper the evidence  
11 really was not -- evidence was really not in favor of the prostate  
12 cancer association. So I think, you know, that the -- that what Paul  
13 is saying is that the motion to exclude prostate cancer has already  
14 carried and there was discussion around that motion, so that this  
15 motion is not really in order at this point in time.

16 **MS. DABAS:** I'm not sure that's the case. I believe that the motion  
17 that was put was to include everything else but prostate, but it  
18 wasn't to specifically exclude prostate. And I think I would like to  
19 see a vote on the record as to the exclusion of prostate as well as  
20 some justification on the record for that.

21 **DR. WARD:** Okay, Paul, what is your recommendation?

22 **DR. MIDDENDORF:** Well, we've -- to revisit prostate we'd need a  
23 motion to reconsider that vote.

24 **MS. DABAS:** It's Valerie, and I would like to put a motion to  
25 reconsider the prostate -- inclusion of prostate.

26 **MS. HUGHES:** Second -- Catherine Hughes.

27 **DR. WARD:** So I think, though, what Paul is saying is that -- and I'm  
28 not saying we should do this, but I think Paul was saying to  
29 reconsider the prostate we would have to reconsider the entire  
30 vote on including the entire list and the modification of eye. Is that  
31 what you're saying, Paul?

32 **DR. MIDDENDORF:** I think we can just reconsider -- basically I was  
33 -- an amendment to that that removed prostate, so I think we can  
34 go ahead and -- hold on just a second.

35 Motion would be to reconsider the entire previous vote because

1 prostate was specifically excluded.

2 **MS. DABAS:** Paul, what I'm asking is that we vote to consider  
3 prostate; not to reconsider the motion, but to -- to vote for the  
4 inclusion of prostate cancer.

5 **MS. HUGHES:** Catherine, second it, just prostate only, though.

6 **DR. WARD:** So Paul, are you comfortable with just taking that vote  
7 for the record?

8 **DR. MIDDENDORF:** Yeah, I -- I think we can do that. So let's --  
9 restate that motion. What is the motion?

10 **MS. DABAS:** The motion is to approve prostate cancer as part of  
11 this recommendation.

12 **DR. MIDDENDORF:** Being the -- 'The Committee recommends  
13 adding prostate cancer to the list of covered conditions'?

14 **MS. DABAS:** Yes.

15 **DR. WARD:** And we have a second?

16 **MR. CASSIDY:** Steve Cassidy, second.

17 **DR. WARD:** So is there any further discussion on the motion?

18 **DR. DEMENT:** Yeah, this is John Dement. Can I speak, please?

19 **DR. WARD:** Yes.

20 **DR. DEMENT:** You know, I think we do have some inconsistency in  
21 the approach with regard to prostate cancer, and I think the prior  
22 vote tied it in with the all -- approving the entire list, and also we  
23 had the eye cancers in there. And I personally was torn with that  
24 decision, and I think if we apply our rationale -- and the rationale  
25 has to do with exposures to arsenic and cadmium, among other  
26 things -- then I think prostate is legitimately one that ought to be  
27 considered.

28 **DR. WARD:** Okay. Anyone else who would like to have discussion  
29 before we vote?

30 **DR. WEAVER:** Virginia Weaver, and I have some concerns about  
31 prostate because we could do more harm than good. In this  
32 current environment where there's so much concern about the  
33 appropriate technique to screen for prostate, and we know that we  
34 pick up cancers that may never actually become metastatic and  
35 cause significant disease but the surgery can be quite disabling, I

1 have concerns about including a cancer when there's less certain  
2 evidence and concerns about the screening approach.

3 **DR. TALASKA:** Glenn Talaska, I have to chime in here, too. I think  
4 my reservations with prostate cancer have to do with the one  
5 carcinogen that we -- that is known to be a prostatic carcinogen  
6 and that's cadmium. And again, going back to the Edelman data  
7 with all their flaws, the levels of cadmium -- which has a very long  
8 half-life -- in the firefighters at the site was lower than the  
9 firefighters who never entered the site, and they were both  
10 relatively low levels of cadmium. So that exposure -- you know,  
11 they weren't anywhere near elevated, compared even to  
12 population levels. And they were lower in the firefighters who  
13 entered the World Trade Center than those who were -- who never  
14 entered it and were used as the control group for that study. So it  
15 would take away that one exposure that we have any exposure  
16 data on.

17 **DR. WARD:** This is Liz -- no, go ahead.

18 **MS. FLYNN:** I'm sorry, this is Kimberly. I do want to point out,  
19 however, that arsenic is also linked with prostate cancer and that,  
20 again, the absence of data does not indicate the absence of  
21 exposure. So Edelman didn't capture arsenic.  
22 And the second thing I want to say is, while I understand Virginia's  
23 hesitations, I think that those fall outside of the purview of the  
24 STAC. I think those issues of screening and whether or not, you  
25 know, there would be too many surgeries, all come under the  
26 purview of implementation of those implementing STAC  
27 recommendations.

28 **MR. CASSIDY:** Steve Cassidy.

29 **DR. WARD:** Go ahead.

30 **MR. CASSIDY:** I agree with that last comment about being  
31 concerned about surgeries. I mean I don't think that has anything  
32 to do with our decision. It may be a legitimate concern, but has  
33 nothing to do, in my view, with whether or not we consider  
34 prostate cancer being included.

35 And the other comment is that I'm certain not being at the World



1 Trade Center was better than being at the World Trade Center,  
2 whatever those reports indicate about cadmium. That doesn't  
3 make any sense whatsoever.

4 **DR. WARD:** Yeah, this is Liz, and I guess, you know, the things that  
5 are weighing on my vote is the fact that the -- you know, the  
6 epidemiological data for cadmium and arsenic in prostate is  
7 relatively weak, and essentially the study of firefighters was  
8 essentially a negative study, not showing an association with  
9 prostate cancer and the fact that we really have very little previous  
10 evidence of prostate cancer being associated with  
11 occupational/environmental exposure, so I guess -- you know, in  
12 my mind the -- that the ration-- you know, the rationale for  
13 expecting that there will be an association is relatively weak  
14 compared to many of the others. And -- yeah, that's basically  
15 where I'm coming from.

16 **MS. SIDEL:** Hi, it's Susan Sidel. May I ask a question?

17 **DR. WARD:** Sure.

18 **MS. SIDEL:** What is the average age for prostate cancer, because  
19 for some reason in my mind I thought it was like older men and we  
20 were seeing it in younger men, that that was one issue. And that  
21 the other issue was that -- I remember someone coming in to  
22 testify about how seclusive (sic) it was in her father's case and that  
23 usually it's -- it doesn't -- it's not quite as rapid of a progression as  
24 what happened with her dad. And I was wondering if that -- you  
25 know, if there's somehow we can carve out like exceptions to  
26 general rules, or is that getting into policy?

27 **DR. WARD:** Well, that's why -- you know, that's why we talked  
28 about age in the rare cancer thing, so -- so if some -- you know,  
29 rates of prostate cancers start going up once you hit about age 45,  
30 you start getting an increase in incidence of prostate cancer. So  
31 our recommendation was that the program really take age into  
32 account, and so if someone is diagnosed with prostate cancer at  
33 age 30, then they're -- you know, you would look at the expected  
34 incidence of prostate cancer at let's say age 20 to 30 or 30 to 40 as  
35 your definition of a rare cancer. So that was specifically -- I mean

1 so that -- so someone diagnosed with prostate cancer at a really  
2 early age would be picked up by the rare cancer.

3 **MS. SIDEL:** Right.

4 **DR. WARD:** But the other thing is, you know, comparing the  
5 average age at which cancer is diagnosed is a really tricky business.  
6 So for example in the firefighters' study they excluded everyone  
7 over age 60 from the study, and the vast majority of people in the  
8 population were much younger than 60, so it almost -- it almost  
9 has to be true that the average age of diagnosis of prostate cancer  
10 would be much lower than in the general population 'cause you  
11 didn't have anybody over the age of 60 in that study.

12 **MS. SIDEL:** Yeah, so it gets skewed, yeah.

13 **DR. QUINT:** This is Julia. In addition to the LeMasters' meta-  
14 analysis of firefighters and showing -- I think it was, you know, 1.28  
15 increase of prostate cancer, the IARC also did a meta-analysis after  
16 the LeMasters study which included two new epidemiological  
17 studies and also found, again, an increase in prostate cancer.  
18 That's in Volume 98 of the monograph.

19 So it seems that, you know, you keep finding prostate cancers  
20 among workers -- firefighters in this case -- who have, you know,  
21 the exposure to some of the same things that were -- just but more  
22 so at the World Trade Center. So I know this has been used to sort  
23 of indicate that firefighters have, you know, a propensity for  
24 prostate cancer, and it wasn't increased based on the World Trade  
25 Center exposures, and I would say that possibly we didn't see any  
26 increase because, you know, these -- they're having these  
27 exposures all the time and it's increased their -- the rate of  
28 prostate cancer. So I'm going on the basis of like -- typical -- you  
29 know, all of these mixtures of exposures literally being related to  
30 an increase in prostate cancer based on lots of studies now, two  
31 meta-analyses and lots of epidemiological studies and you -- it just  
32 won't go away. So it seems to me there is something there.

33 **MS. HUGHES:** Catherine Hughes here. Is brain cancer considered a  
34 rare cancer?

35 **DR. WARD:** Well, I mean the -- well, the -- you know -- well, it's a

1 lot rarer than lung and prostate and colorectal and breast. Again,  
2 where you draw the line -- you know, I'm not sure where it will fall  
3 when you draw the line, but it -- like I say, it is a fairly uncommon  
4 cancer compared -- in most age groups compared to many of the  
5 others we're talking about.

6 **MS. MEJIA:** This is Guille. I really do have a concern about voting  
7 for prostate cancer when in a prior motion we had already voted to  
8 exclude it, so I just wanted to chime in.

9 But the other thing is that we have to also consider a lot of  
10 surveillance that has taken place with prostate cancer and all the  
11 initiatives that have been undertaken by many public health  
12 departments and organizations to increase awareness of prostate  
13 among the male population, so -- you know, so there's -- there's  
14 going to be a lot more people -- a lot more men identify with  
15 prostate as a result of some of these screenings.

16 **DR. WEAVER:** This is Virginia, and I think that's a very good point.  
17 Bob Harrison had made that, that surveillance bias for prostate  
18 cancer is probably a big contributing factor to the increased rates  
19 that are observed in men. And once again it just makes me  
20 anxious, if we're not sure exactly how we should be screening and  
21 when we should be doing surgery, that we could do more harm  
22 than good.

23 **DR. WARD:** Yeah, I think that the surveillance bias makes it really  
24 very hard to interpret epidemiologic studies for prostate. It --  
25 because even if you look at the long-term incidence rates for  
26 prostate over time in the U.S., there's this huge peak in incidence  
27 when the PSA screening was introduced. And what's even stranger,  
28 there's also a little peak in mortality, and I -- we think it's just --  
29 that peak in mortality is not really due to more men dying of  
30 prostate cancer, it's just that when physicians were filling out the  
31 death certificates, you know, their awareness of prostate cancer  
32 and -- was increased and they -- and more cases were getting  
33 diagnosed so they were being included on the death certificate, but  
34 they weren't really -- it wasn't that more men were dying of  
35 prostate cancer. So when you have one of these cancers that is so

1 influenced by -- you know, there's such a large reservoir of  
2 prostate cancers in men that are not systematic and would not be  
3 diagnosed, except for the PSA test, that it just makes it incredibly  
4 hard to do, you know, good epidemiologic studies.

5 **MS. DABAS:** Hi, this is Valerie. I mean I think that we -- my  
6 understanding is FDNY takes the PSA test, regardless, anyway. So if  
7 you're looking at the World Trade Center group, this was  
8 something that they were doing ordinarily prior to, so I'm not sure  
9 how surveillance bias falls into a group that was already getting  
10 monitored, especially when they're looking at another group in a  
11 similar circumstance.

12 **DR. WEAVER:** This is Virginia. And that's why there's an increased  
13 rate in both the exposed and unexposed firefighters 'cause both of  
14 them have been screened for prostate cancer.

15 **MS. DABAS:** But I assume that there's a difference in the rate  
16 between the exposed and the non-exposed, and that's what we're  
17 looking at.

18 **DR. WEAVER:** The rates are pretty similar. They're both elevated.

19 **MS. DABAS:** But to a different degree.

20 **DR. WARD:** No. Well, does anybody have the study in front --

21 **DR. ALDRICH:** (Unintelligible), I mean the rates are statistically  
22 identical. The SIR ratio, which is the ratio of the SIR for the  
23 exposed to the SIR for the unexposed, was 1.11 with a confidence  
24 interval in the range of some .77 to 1.59. You can't get closer to  
25 one than that. There's no dif-- there's no statistical difference,  
26 there's no meaningful difference, in those rates.

27 **DR. MIDDENDORF:** And that's Tom Aldrich speaking.

28 **DR. ALDRICH:** I'm sorry, I should have identified myself.

29 **MR. CASSIDY:** Does anybody have any information on studies that  
30 would outline how long after an exposure that people would  
31 expect to get prostate cancer?

32 **DR. MIDDENDORF:** And that's Steve Cassidy.

33 **MR. CASSIDY:** That's Steve Cassidy, yes.

34 **DR. ROM:** This is Bill Rom, and I'm just signing off and turning my  
35 vote over to Tom Aldrich 'cause I have a grand rounds speaker to

1 introduce, but I think that prostate is the problem of over-  
2 diagnosis, with no occupational association.

3 **DR. MIDDENDORF:** Unfortunately, Bill, if you leave you cannot  
4 have someone vote as a proxy for you.

5 **DR. WARD:** That does bring up the issue. It is now five minutes to  
6 5:00 and, you know, we are in danger about those people who have  
7 other commitments have to leave. So I -- with regard to Steve's  
8 question, though, I think -- I mean I haven't done a literature  
9 search on that specific point, but there are so few studies  
10 documenting what the causes -- you know, documenting clear  
11 causal factors for prostate cancer that it would -- you know, I don't  
12 think you'd find studies that were able to define what the length of  
13 time was between the exposure and the outcome. 'Cause for that,  
14 you really need a pretty strong effect, so I don't think that data is  
15 going to be available.

16 So I guess the que-- are there any other points on the prostate  
17 cancer question that haven't, you know, been covered in one way  
18 or another that anyone would like to see, and if not, I think we  
19 should call this for a vote because we do want to make sure that  
20 we have time to, as a Committee, draft the rationale for the breast  
21 cancer inclusions before people have to leave, because every -- you  
22 know, essentially everything -- you know, everything that's in this --  
23 we have to draft, as a Committee, everything that's going in this --  
24 in this letter to Dr. Howard. So are there any pressing issues  
25 related to prostate cancer that have not already been covered?

26 **DR. TRASANDE:** This is Leo Trasande. I move to vote.

27 **DR. WARD:** Okay. Paul, go ahead with the vote.

28 **DR. MIDDENDORF:** Okay. Tom Aldrich? Oh, I need to restate the  
29 motion. The motion is 'The Committee recommends adding  
30 prostate to the list of covered conditions.'

31 **DR. ALDRICH:** I vote no.

32 **DR. MIDDENDORF:** Tom Aldrich, no. Steve Cassidy?

33 **MR. CASSIDY:** Yes.

34 **DR. MIDDENDORF:** Valerie Dabas?

35 **MS. DABAS:** Yes.

1 **DR. MIDDENDORF:** John Dement?  
2 **DR. DEMENT:** No.  
3 **DR. MIDDENDORF:** Kimberly Flynn?  
4 **MS. FLYNN:** Yes.  
5 **DR. MIDDENDORF:** Bob Harrison?  
6 **DR. HARRISON:** No.  
7 **DR. MIDDENDORF:** Catherine Hughes?  
8 **MS. HUGHES:** Yes.  
9 **DR. MIDDENDORF:** Guille Mejia?  
10 **MS. MEJIA:** Yes.  
11 **DR. MIDDENDORF:** Julia Quint?  
12 **DR. QUINT:** Yes.  
13 **DR. MIDDENDORF:** Bill Rom?  
14 **DR. ROM:** No.  
15 **DR. MIDDENDORF:** Susan Sidel?  
16 **MS. SIDEL:** Yes.  
17 **DR. MIDDENDORF:** Glenn Talaska?  
18 **DR. TALASKA:** No.  
19 **DR. MIDDENDORF:** Leo Trasande?  
20 **DR. TRASANDE:** No.  
21 **DR. MIDDENDORF:** Liz -- Virginia Weaver?  
22 **DR. WEAVER:** No.  
23 **DR. MIDDENDORF:** Liz Ward?  
24 **DR. WARD:** No.  
25 **DR. MIDDENDORF:** Okay, I have eight no and seven yes. The  
26 motion does not carry.  
27 Liz, I was wondering if we might want to take a very short break to  
28 let people do whatever they need to for five minutes and then  
29 come back?  
30 **DR. WARD:** That's fine with me.  
31 **UNIDENTIFIED:** I actually object. I actually am going to have to get  
32 off this call fairly soon, and I'm actually concerned about quorum --  
33 **UNIDENTIFIED:** And I'm --  
34 **UNIDENTIFIED:** -- (unintelligible) fifteen.  
35 **UNIDENTIFIED:** -- going to be kicked out of my space at 5:00

1 o'clock.

2 **DR. WARD:** Okay, so let's --

3 **DR. MIDDENDORF:** Let's proceed on then.

4 **UNIDENTIFIED:** Thank you very much.

5 **DR. WARD:** So we need a -- at least let's get the bullet points down  
6 for what the main reasons for which the Committee is  
7 recommending that breast cancer be included are.

8 **DR. QUINT:** Well, I think one reason is the -- there are some  
9 studies showing a positive relationship between levels of PCBs in  
10 both sera and tissue, mammary tissue, and increased risk of breast  
11 cancer. I can quote -- I mean I have -- I can get some -- you know,  
12 it's not -- the studies are not consistent, but there are some  
13 positive studies showing that relationship.

14 **DR. WARD:** Okay. And I think we should include, since I know that  
15 there's a large volume of literature, I think it would be appropriate  
16 to cite --

17 **DR. MIDDENDORF:** Okay, I need to get that last thought down.  
18 What is it, some studies correlating PCBs and what?

19 **DR. QUINT:** Breast cancer.

20 **DR. MIDDENDORF:** Breast cancer, okay.

21 **DR. QUINT:** Liz might be able to -- you're more familiar with the  
22 data, but I do have -- I mean would you state that differently?

23 **DR. WARD:** I would guess I'd have to say: However, evidence is  
24 conflicting. Because --

25 **DR. QUINT:** (Indiscernible)

26 **DR. WARD:** -- (Indiscernible) some studies that don't find an  
27 association.

28 **DR. TALASKA:** This is Glenn. There is some evidence of exposure  
29 to PCBs in the World -- at Ground Zero and in the World Trade  
30 Center. There was -- the window film showed it and there was also  
31 -- some people were posi-- had higher -- there was PCBs in some  
32 samples.

33 **DR. QUINT:** And then I think the lack of --

34 **DR. MIDDENDORF:** What kinds of samples, Glenn?

35 **DR. TALASKA:** Biological samples. I don't remember what the --

1 there were air samples -- window films, and there were some --  
2 one or two congeners that were elevated in blood samples.  
3 **DR. MIDDENDORF:** Do I have this correct? 'Evidence of exposure  
4 to PCBs in air samples --  
5 **DR. TALASKA:** Window films.  
6 **DR. MIDDENDORF:** -- films --  
7 **DR. TALASKA:** And in some blood samples, and that would be -- let  
8 me try to find the --  
9 **DR. WARD:** I think it maybe is the Dahlgren study.  
10 **DR. TALASKA:** That's right, Dahlgren, thank you.  
11 **DR. WARD:** And that's on page 17.  
12 **DR. TALASKA:** Yeah.  
13 **DR. MIDDENDORF:** Okay.  
14 **DR. QUINT:** Then I think we should also add the 2010 study  
15 showing that PCBs enhance the metastatic properties of breast  
16 cancer cells, activating the Rho-associated kinase, the ROCK, that  
17 was shown both in vivo and in vitro.  
18 **DR. MIDDENDORF:** Can you say that again for me, Julia?  
19 **DR. QUINT:** A recent -- a 2010 study showing that PCBs enhance  
20 the metastatic properties of breast cancer cells by activating the  
21 Rho-associated kinase, or R-O-C-K.  
22 **DR. MIDDENDORF:** You're going way too fast for me.  
23 **DR. QUINT:** Oh, I'm sorry.  
24 **DR. MIDDENDORF:** Metastatic properties of breast --  
25 **DR. QUINT:** Cancer cells.  
26 **DR. MIDDENDORF:** Yes?  
27 **DR. QUINT:** By activating R-h-o associated kinase.  
28 **DR. MIDDENDORF:** R-h-o?  
29 **DR. QUINT:** Uh-huh.  
30 **DR. MIDDENDORF:** Okay.  
31 **DR. QUINT:** Dash, associated kinase, R-O-C-K. And that was shown  
32 in that study in vitro -- human breast cancer cells in vitro and also  
33 in vivo. And I don't know if you need this, but the cells were  
34 metastasized to bone, liver -- to bone, lung and liver.  
35 **DR. WARD:** And Julia, if any of these studies is not available on the



1 site, will you send them to Paul?

2 **DR. QUINT:** Yeah, I have this -- this study was a free download so I

3 can send the study, the one I just mentioned, and I will send -- I

4 will try -- I probably can get the one positive study, and I'll look for

5 the others showing the association between PCBs and breast

6 cancer risks. The one I'm looking at now is Cancer:

7 Epidemiological Biomarkers, 2000, by a Canadian group, Harrison,

8 et al.

9 **DR. WARD:** Now -- I mean I think there's at least 20 studies that

10 have been done.

11 **DR. QUINT:** That's right, and about 20 negative ones, as well. I

12 don't know, I'm just saying, I know it's inconsistent.

13 **DR. WARD:** Yeah.

14 **DR. QUINT:** I think it's the endocrine-disrupting properties of PCBs

15 as well.

16 **DR. WARD:** I was really --

17 **DR. MIDDENDORF:** If you want something more, you need to give

18 me the words 'cause I don't want to put words in the Committee's

19 mouth.

20 **DR. QUINT:** Yeah, I -- let me find...

21 **DR. WARD:** Then we could probably say something like PCBs and

22 some other substances present at the WTC site --

23 **DR. MIDDENDORF:** I'm sorry, say that again.

24 **DR. WARD:** And some other substances --

25 **DR. MIDDENDORF:** Yes.

26 **DR. WARD:** -- at the WTC site are --

27 **DR. MIDDENDORF:** At the WTC site.

28 **DR. WARD:** -- are endocrine disrupters, therefore potentially could

29 (indiscernible).

30 **DR. QUINT:** And I think we should -- I don't know if you --

31 **DR. TALASKA:** Liz, it's Glenn. I have to ring off.

32 **DR. WARD:** Okay. Thanks, Glenn.

33 **DR. TALASKA:** Sure thing, bye-bye.

34 **DR. WARD:** And Julia, I think it probably should say some -- well, I

35 don't know if all PCB congeners are endocrine disrupters. I --

1 **DR. QUINT:** Right.  
2 **DR. WARD:** -- think that some of them are estrogenic and some of  
3 them are anti-estrogenic.  
4 **DR. QUINT:** That's exactly right, so we'd have to -- I don't have  
5 that in front of me, unfortunately. So maybe just saying -- the ones  
6 that were linked to the breast cancer risk in this one study were  
7 congeners 105 and 108 -- I'm sorry, 105 and 118, and 170 and 180.  
8 **DR. WARD:** My suggestion would be not to include -- get to that  
9 level of specificity --  
10 **DR. QUINT:** Yes, right.  
11 **DR. WARD:** -- because we're not going to have time to look at  
12 other studies and --  
13 **DR. QUINT:** Okay.  
14 **DR. WARD:** -- (indiscernible) same thing.  
15 **DR. QUINT:** Exactly.  
16 **DR. WARD:** So with the sentence that you're typing, Paul, it could  
17 be -- you could just -- '...endocrine disrupters, which potentially  
18 could influence breast cancer risk.' And we could -- somewhere get  
19 in there, 'Breast cancers are highly dependent on hormonal factors  
20 and therefore endo...  
21 **DR. MIDDENDORF:** On hormonal --  
22 **DR. WARD:** Factors, or are highly related to hormonal factors,  
23 therefore -- yeah. Therefore could be impacted by endocrine --  
24 further to endocrine disrupters.  
25 Then I think our next point could be that there's varying -- you  
26 know, that the opportunities to identify (indiscernible) related to  
27 occupational exposures --  
28 **DR. MIDDENDORF:** To identify what related to occupational  
29 exposures?  
30 **DR. QUINT:** Increased breast cancer risks.  
31 **DR. WARD:** Yeah.  
32 **UNIDENTIFIED:** It's not showing up on the screen -- on the  
33 computer screen.  
34 **DR. MIDDENDORF:** Can you see it now?  
35 **DR. QUINT:** Yes.

1 **DR. MIDDENDORF:** Okay.

2 **DR. QUINT:** To identify breast cancer risks, right?

3 **DR. WARD:** Right, related to occupational exposures have been

4 extremely limited due to small numbers of women in industrial

5 occupations.

6 **DR. MIDDENDORF:** Small numbers of women...

7 **DR. WARD:** In industrial occupations and/or -- yeah, in

8 epidemiologic studies of industrial populations.

9 **DR. MIDDENDORF:** You'll have to restate that -- small numbers of

10 women in --

11 **DR. QUINT:** Included.

12 **DR. WARD:** It's due to small numbers of women in industrial

13 population studies.

14 **DR. MIDDENDORF:** Industrial population studies?

15 **DR. WARD:** Yeah, that's good.

16 **DR. MIDDENDORF:** Okay.

17 **DR. WARD:** Okay. Are there any other points in the rationale that

18 we should include?

19 **MS. SIDEL:** Hi, it's Susan Sidel. Do we want to say anything about

20 the lack of studies on women in this program generally?

21 **DR. WARD:** Not sure that's a part of the scientific rationale for

22 recommending --

23 **MS. SIDEL:** Okay, you're right.

24 **DR. WARD:** -- be included.

25 **MS. SIDEL:** Okay.

26 **DR. WARD:** Okay, are there any more points on that, or Paul can

27 take -- I think Paul can take the language that he's got and -- and

28 references sent by Julia and finalize the rationale for --

29 **MS. FLYNN:** This is Kimberly. Are you interested in the citation on

30 shift work, or is that not useful?

31 **DR. WARD:** I think we could add that as an additional bullet --

32 **MS. FLYNN:** Okay.

33 **DR. WARD:** -- included in the COPC list of potentially -- of potential

34 -- contamin-- while not included in the list of potential

35 contaminants of concern, it is known that, you know, shift work

1 was done at the World Trade Center site and IARC has found -- I  
2 can't remember if it's 'limited' or 'sufficient' evidence for increased  
3 risk of breast cancers associated with shift work involving -- I think  
4 it's involving -- I forget, but I'll see if I can find it, but I think that  
5 would probably be enough for the Committee to agree on. So Paul,  
6 are you getting that?

7 **DR. MIDDENDORF:** No, my mind was elsewhere, I'm sorry. Do you  
8 have another bullet, and what is the bullet?

9 **DR. WARD:** IARC has found -- then leave a blank for 'limited' or  
10 'sufficient' 'cause I can't remember which, whichever one is correct  
11 -- evidence for an association between breast cancer and shift  
12 work. There was a little modifier of the shift work, but I think --

13 **DR. MIDDENDORF:** Wait a minute, you're getting too far ahead of  
14 me.

15 **DR. WARD:** Between breast --

16 **DR. MIDDENDORF:** Between breast cancer and shift work -- okay.

17 **DR. WARD:** Then, period. It -- you know, both -- both -- I'm trying  
18 to think -- both shift work and shifts of long duration were common  
19 at the World Trade Center site. Yeah, were common at the World  
20 Trade -- among personnel at the World Trade Center.

21 **DR. MIDDENDORF:** I'm sorry, what?

22 **DR. WARD:** Were -- among personnel involved in World Trade  
23 Center rescue, recovery -- the list of -- list of categories of people  
24 that were involved in the cleanup, the recovery, the rescue, the -- I  
25 think Guille gave me that language for the first part. Right, Guille,  
26 do you remember? Still here? Okay.

27 **DR. ALDRICH:** Do you want to know about a typo on the previous  
28 page? Line 31, metastatic.

29 **DR. MIDDENDORF:** Such things are going to be able to be handled  
30 by Liz. She can do copy editing after this. It's just that the content  
31 has to be finished here in this meeting.

32 **UNIDENTIFIED:** Okay, I have what I think are pretty...

33 **DR. MIDDENDORF:** This is not finished -- both shift work and shifts  
34 of long duration were common --

35 **DR. WARD:** Okay, so I'm looking for the --

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35

**DR. ALDRICH:** -- at the World Trade Center.

**DR. WARD:** At the -- yeah, that's good enough, I think, for this. I mean I just found the list of -- you know, the language that Guille Mejia suggested was 'engaged in rescue, recovery, demolition debris cleanup, and other related services.'

**DR. ALDRICH:** Well, why be so specific?

**DR. WARD:** Yeah, we don't have to be that -- yeah.

**UNIDENTIFIED:** (Unintelligible) volunteers.

**DR. WARD:** Is everybody comfortable with the language as Paul has it typed now?

**UNIDENTIFIED:** Will you also be sending the Committee members a revision of this draft with the changes? What's the time frame for that?

**DR. MIDDENDORF:** When this meeting is over I'm going to save it. I will send it to the entire Committee. The Committee needs to commission Liz to make typographical and copy editing changes to whatever is here, but nothing more.

**UNIDENTIFIED:** Thank you very much.

**DR. MIDDENDORF:** Okay. There are some things here in the report that I think need to be edited out.

**DR. QUINT:** Not to mention the things that are not factually correct.

**DR. MIDDENDORF:** Well, on that problem we've got this note on, the text highlighted below does not reflect, and we don't want that.

**DR. QUINT:** I'm sorry?

**DR. ALDRICH:** (Unintelligible)

**DR. MIDDENDORF:** I'm sorry, on page three at the very top it says (reading) Please note that the text highlighted below does not reflect the final recommendation of the STAC. The text is for review by the Committee. We still take discussion of options for the recommendation and will be used as appropriate in the final draft to support the recommendations.

So I'm assuming that you want that out.

**DR. ALDRICH:** Yes.

1 **DR. MIDDENDORF:** Is that correct?  
2 **DR. WARD:** Yes.  
3 **DR. QUINT:** Right.  
4 **DR. MIDDENDORF:** All right. Option one was voted down. Do you  
5 want that out?  
6 **DR. WARD:** Yes.  
7 **DR. QUINT:** Yes.  
8 **DR. MIDDENDORF:** So all of option one goes away.  
9 **DR. ALDRICH:** Although at some point later on there was some  
10 reference to some members of the Committee supported more and  
11 -- no reason not to leave that in. Right?  
12 **UNIDENTIFIED:** Yeah, I have to -- you know what, I wanted to  
13 comment on the option one because it raised like limitations of  
14 data and stuff like that, which is relevant. Like if you do a scientific  
15 experiment you talk -- have a limitations section, so some of it is  
16 relevant to the discussion, particularly when you talk about, you  
17 know, some of the evidence and -- you know, by -- you look at --  
18 you can't delete all of option one.  
19 **DR. MIDDENDORF:** Then you're going to need to go line by line  
20 and tell me what to delete and what not to delete, or what to  
21 change.  
22 **DR. WARD:** So Paul --  
23 **DR. MIDDENDORF:** Yes.  
24 **DR. WARD:** -- I think for sure you want to keep the last paragraph  
25 in option one. Maybe we'll want to move it to the end.  
26 **UNIDENTIFIED:** Perfect.  
27 **UNIDENTIFIED:** I agree, that's really good.  
28 **UNIDENTIFIED:** And what about the second to last paragraph  
29 about the findings of the FDNY study? So that's on page four, lines  
30 4, 5 and 6. That should also be included.  
31 **DR. ALDRICH:** I think that's discussed elsewhere and it doesn't  
32 advance this argument.  
33 **UNIDENTIFIED:** Okay.  
34 **DR. WARD:** Yeah.  
35 **DR. MIDDENDORF:** Okay, I'm -- I need you to tell me exactly what

1 to do.

2 **DR. WARD:** Okay, take that paragraph and then scroll to the --

3 **DR. MIDDENDORF:** This paragraph, 'In addition to the evidence...'?

4 **DR. WARD:** Yes. Scroll on down to the end of the letter to Dr.

5 Howard.

6 **DR. MIDDENDORF:** Go ahead. Scroll down?

7 **DR. WARD:** Yeah.

8 **DR. ALDRICH:** Page 28, more or less.

9 **DR. WARD:** Okay. So go back -- okay. So the question -- so maybe

10 we move it right before the 'We appreciate the opportunity...'

11 paragraph, and we need to figure out some way to make the

12 transition.

13 **DR. MIDDENDORF:** So you want this paragraph removed from

14 here.

15 **DR. WARD:** Yes.

16 **DR. MIDDENDORF:** You want it at this insertion point.

17 **DR. WARD:** I think so. So we just need to modify that first

18 sentence so it's a more appropriate transition. Maybe something

19 like: The Committee recognizes the limitations of existing evidence

20 and the possibility that the presence of multiple exposures and

21 mixtures could produce unexpected results. Something like that.

22 **DR. ALDRICH:** Well, it has to be something specifically related to

23 the non-covered cancers.

24 **DR. WARD:** I think it's really the issue of acknowledging that

25 they're -- we're making this recommendation in the light of

26 considerable data limitations and uncertainties because --

27 **DR. ALDRICH:** The previous paragraph exactly leads into this. If

28 this was -- rather than a new paragraph, part of the previous

29 paragraph.

30 **DR. WARD:** What are you seeing as the previous paragraph?

31 **DR. ALDRICH:** (Reading) The Committee also recommends that, in

32 addition to treatment of the listed cancers -- for the listed cancer

33 sites, the health program provides funding and guidelines for

34 medical screening and early detection based on a review of

35 evidence regarding risks and benefits to the --

1 Oh, no, you're right, it doesn't -- it doesn't (unintelligible).

2 **DR. WARD:** And actually at the end of the paragraph we make  
3 reference to the lack of epidemiologic data on female breast  
4 cancer, so we probably need to take that sentence out now that  
5 we've included breast.

6 **UNIDENTIFIED:** Right.

7 **DR. WARD:** So we need to take the last two sentences here out.

8 **DR. MIDDENDORF:** These two sentences?

9 **DR. WARD:** Yes.

10 **DR. MIDDENDORF:** Additional concern -- starting with 'An  
11 additional concern' on line 14 and ending with 'reproductive organs  
12 is limited' on line 18?

13 **DR. WARD:** Right.

14 **DR. ALDRICH:** You can leave that second to last sentence there.  
15 That's not -- contradicts anything we've said before, and it's  
16 relevant.

17 **DR. WARD:** Okay, so it's just the last one on breast.

18 **DR. ALDRICH:** Yeah.

19 **DR. MIDDENDORF:** So starting on line 16 with '(indiscernible)  
20 availability' and going through 'is limited.'

21 **DR. WARD:** Right.

22 **DR. MIDDENDORF:** On line 18. Okay.

23 **DR. ALDRICH:** How about instead of -- at the beginning of that, the  
24 second line of that paragraph, instead of saying 'arguments in favor  
25 of listing all cancers', 'arguments in favor of listing additional  
26 cancers'?

27 **DR. WARD:** Okay. But then we need to have a final sentence that  
28 explains why we didn't, I guess. We could at the end say:  
29 However, the majority of the Committee felt that --

30 **DR. ALDRICH:** Yeah, you're right.

31 **DR. WARD:** -- you know, the recommendations that were made  
32 reflected the best available -- or kind of sound scientific rationale  
33 and reflected the best available evidence at this time.

34 **DR. ALDRICH:** I like it.

35 **DR. MIDDENDORF:** What is it -- where and what?



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35

**DR. WARD:** At the end of that paragraph --

**DR. MIDDENDORF:** Yes.

**DR. WARD:** -- However, the majority of Committee members agreed that the recommendations made above have -- are based on a sensible scientific rationale and reflect the best --

**DR. MIDDENDORF:** Sorry, say that again.

**DR. WARD:** A sensible scien-- are based on a sound scientific rationale and the best -- and the best evidence available today.

**DR. ALDRICH:** That's good.

**DR. WARD:** Okay. Looks good to me.

**DR. ALDRICH:** Like it a lot.

**DR. WARD:** Good. So shall we move on to the --

**DR. MIDDENDORF:** How about if we go back up and look at option one. Does the rest of this go away?

**DR. WARD:** I think so.

**DR. ALDRICH:** Yep.

**DR. MIDDENDORF:** And with highlighted. You want this header, option two?

**DR. WARD:** No, that can go away, I think.

**DR. MIDDENDORF:** (Indiscernible) trying to do.

**DR. WARD:** Endnotes is horrible. Endnotes will hijack your document.

**DR. MIDDENDORF:** And she hung up.

**DR. WARD:** All right. Do you have a hard copy that you can write notes on?

(Pause)

**DR. MIDDENDORF:** Okay, back to doing business. Okay, so this -- at least I thought I was.

(Pause)

**DR. MIDDENDORF:** It'll pull up other documents but this one is hung up.

**DR. WARD:** Yeah, I mean and I do think you're at the point where maybe a hard copy would suffice 'cause I think all we're going to -- I mean I think all we need to do here is cross out the bold header and then --

1 **DR. MIDDENDORF:** If you want to do that -- I mean you can work  
2 on that yourself.

3 **DR. WARD:** Well, I can't do it and share it with the Committee, so  
4 what I'm saying is we cross out the bold header, then instead of  
5 saying -- I would suggest amending -- the next sentence is 'The  
6 Committee recommends listing of the following site groupings and  
7 sites' -- and then we take out 'each to be discussed and voted on  
8 separately' -- 'be listed as World Trade Center-related conditions,  
9 based on the strength of the evidence summarized in Table 4 and  
10 additional evidence discussed below.'  
11 And that's, I think, all you need to do.

12 **DR. MIDDENDORF:** Okay. Is that what the Committee wants?

13 **DR. ALDRICH:** I'm for it.

14 **DR. WARD:** That's fine.

15 **UNIDENTIFIED:** Sounds good to me.

16 **DR. MIDDENDORF:** I obviously can't do anything more with this  
17 document, so --

18 **DR. ALDRICH:** Well, I think the Commit-- this is Tom Aldrich. I  
19 think the Committee -- the sense of the Committee is -- we know  
20 what needs to be accomplished and we trust Liz to do it.

21 **DR. WEAVER:** This is Virginia. I agree.

22 **MS. MEJIA:** I agree, too. This is Guille.

23 **DR. TRASANDE:** This is Leo Trasande. I agree, and I also have to  
24 sign off at this point.

25 **DR. DEMENT:** This is John Dement, and I agree as well.

26 **DR. QUINT:** I agree -- Julia.

27 **DR. HARRISON:** This is Bob, I agree.

28 **UNIDENTIFIED:** (Unintelligible), I agree.

29 **MS. FLYNN:** This is Kimberly. I agree, but I have one question,  
30 which is any -- any small wording changes, are they still possible or  
31 not? I'm thinking of, for instance, adding the word 'survivors' to  
32 line 28. Possible?

33 **MR. CASSIDY:** This is -- in the interim -- this is Steve Cassidy. I  
34 agree.

35 **DR. WARD:** Can you read that full sentence just to make sure we

1 got it in the right place?  
2 **MS. FLYNN:** Are you asking me, Liz?  
3 **DR. WARD:** Yes, because I think -- I'm not sure what line 28 is  
4 anymore.  
5 **MS. FLYNN:** Oh, I'm sorry, I understand. (reading) However, the  
6 Committee considers that the high prevalence of acute symptoms  
7 and chronic conditions observed in large numbers of rescue,  
8 recovery, cleanup and restoration workers... It should say 'and  
9 survivors' -- (reading) ...as well as qualitative descriptions of  
10 exposure conditions in downtown Manhattan -- et cetera.  
11 **DR. WARD:** Okay, so is everybody on the Committee happy with  
12 that change?  
13 **UNIDENTIFIED:** That's fine.  
14 **UNIDENTIFIED:** Fine.  
15 **UNIDENTIFIED:** (Unintelligible) it's good.  
16 **UNIDENTIFIED:** Right.  
17 **MS. FLYNN:** And I don't know how much patience people have for  
18 anything additional like that.  
19 **DR. WARD:** And Julia, can you send me -- I assume these factual  
20 errors are not something that the Committee needs to  
21 (unintelligible) the group to be addressed, so if you'd just let me  
22 know what they are.  
23 **DR. MIDDENDORF:** If there are substantive changes, then the  
24 Committee needs to be aware of them and agree to them.  
25 **DR. WARD:** Okay, Julia, can you kind of go through them quickly  
26 with -- I mean we won't need to make them in the document, but  
27 we can --  
28 **DR. WEAVER:** This is Virginia and I need to sign off. I'm sorry.  
29 **DR. WARD:** Okay, thanks for coming.  
30 (Pause)  
31 **DR. WARD:** Julia? Hello?  
32 **MS. DABAS:** Hi, it's Valerie. Do we still have a quorum?  
33 **DR. MIDDENDORF:** That's a good question.  
34 **UNIDENTIFIED:** I'm here right now, but they're kicking us out. It's  
35 almost 5:30, so you need me to vote on something?

1 **DR. WARD:** Well, I guess at this point -- Paul, I don't know that we  
2 have any choice but to --  
3 **DR. MIDDENDORF:** I think we're likely below quorum at this point.  
4 **DR. WARD:** Yeah, so we'll -- so Julia, if you're still on, can you send  
5 me a list of the factual changes -- or send it to the entire  
6 Committee, and I will go ahead and do fact-checking and  
7 incorporate them?  
8 **DR. MIDDENDORF:** And whatever that is, we'll probably need to  
9 post that so that everyone can see, it's part of the open record.  
10 **DR. WARD:** Okay, Paul, it may be down to just you and I.  
11 **DR. DEMENT:** No, I'm -- this is John. I'm here, but I don't think we  
12 have enough to do anything.  
13 **DR. WARD:** Yeah.  
14 **DR. ALDRICH:** Tom Aldrich, I'm also here, but you know, it's --  
15 we're pretty much done and I think you can handle the additional  
16 facts and changes and what-not.  
17 **DR. QUINT:** Liz?  
18 **DR. WARD:** Yes.  
19 **DR. QUINT:** I'm sorry, my phone gave out so I was off for a minute.  
20 **DR. WARD:** Oh, okay.  
21 **DR. MIDDENDORF:** I think we're below the quorum.  
22 **DR. QUINT:** Okay, 'cause I had some er-- there's some -- a couple  
23 of errors on page 15 --  
24 **DR. WARD:** Okay.  
25 **DR. QUINT:** -- that I wanted to call to your attention, but I guess  
26 it's too late now.  
27 **DR. WARD:** Well, not necessarily. I think the Committee basically  
28 agreed that -- you know, that we can make those corrections --  
29 **DR. QUINT:** Okay.  
30 **DR. WARD:** -- so we would like you to put them in a list so that  
31 they can be shared --  
32 **DR. QUINT:** Okay, that's fine.  
33 **MS. HUGHES:** I second it. Catherine Hughes seconds it.  
34 **DR. MIDDENDORF:** I don't know that we have a quorum that could  
35 even vote on it, so...

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28

**DR. WARD:** (Unintelligible) I don't know.

**DR. QUINT:** Yeah, my phone just completely went off. All right, I'll send you those.

**DR. WARD:** Thank you.

**DR. MIDDENDORF:** Send it to everyone, please.

**DR. QUINT:** I'm sorry?

**DR. MIDDENDORF:** Send it to everyone.

**DR. QUINT:** Oh.

**UNIDENTIFIED:** Liz, I have to check off also. I want to thank you and Paul for doing this, and we'll be in touch. Thank you.

**DR. WARD:** Great, thank you.

**UNIDENTIFIED:** I have to sign off, too. Thank you so much, Paul and Liz and everybody else on the Committee. Thank you very much.

**DR. WARD:** Thank you.

**DR. MIDDENDORF:** Yeah, we need to cut this off then. Thanks to everyone on the Committee. On behalf of the program I want to express a lot of appreciation for all the hard work under very strenuous conditions and think you've done an excellent job. Thank you very much.

**UNIDENTIFIED:** Thank you, Paul. Thank you, Liz.

**UNIDENTIFIED:** And thank you, Liz. Thank you so much. See you later, bye.

(Teleconference concluded at 5:32 p.m.)

1

CERTIFICATE OF COURT REPORTER  
STATE OF GEORGIA  
COUNTY OF FULTON

I, Steven Ray Green, Certified Merit Master Court Reporter, do hereby certify that I reported the above and foregoing on the day of March 28, 2012; and it is a true and accurate transcript of the proceedings captioned herein.

I further certify that I am neither related to nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 26th day of April, 2012.

---

STEVEN RAY GREEN, CCR, CVR-CM-M, PNSC  
CERTIFIED MERIT MASTER COURT REPORTER  
CERTIFICATE NUMBER: A-2102